

INTERNATIONAL 2018

# PRODUCT CATALOGUE

AUTOMOTIVE LUBRICANTS, INDUSTRIAL OILS AND GREASES

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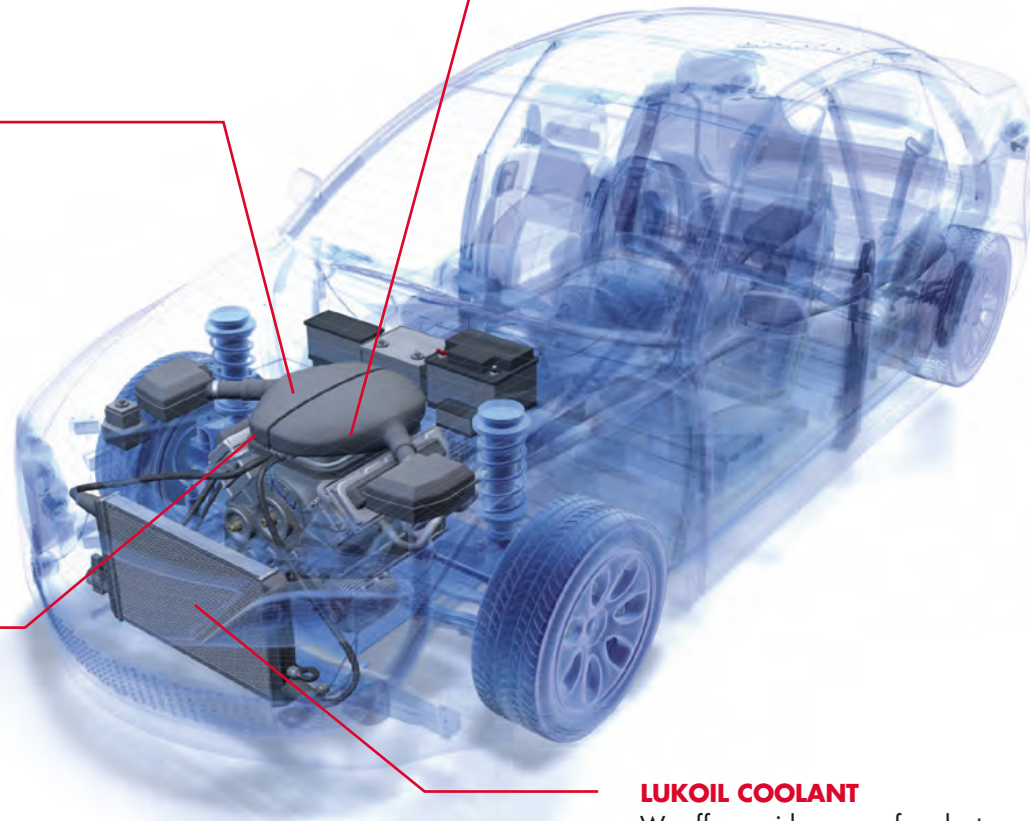
**LUKOIL GENESIS SPECIAL**  
Your car deserves the best motor oil.



**LUKOIL TRANSMISSION**  
Fully synthetic gear oils developed  
for highly loaded gearboxes



**LUKOIL ATF**  
Our range of transmission  
fluids covers your needs



**LUKOIL COOLANT**  
We offer a wide range of coolants  
(neat or diluted) for different  
specifications and requirement



# AUTOMOTIVE LUBRICANTS

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# RIDE WITH PRIDE



**LUKOIL GENESIS**  
DEVELOPED INTERNATIONALLY – REFINED IN AUSTRIA




▼ Engine oils for passenger cars – LUKOIL GENESIS SPECIAL

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL GENESIS SPECIAL VN 0W-20</b> Prod. no.: 563117	LUKOIL GENESIS SPECIAL VN 0W-20 is a fully synthetic low-friction engine oil for high-performance petrol and diesel engines.	39.7	8.1	837	<b>ACEA A1/B1</b> <b>Porsche C20</b>	<b>VW 508 00/ 509 00</b>
<b>LUKOIL GENESIS SPECIAL VN 5W-30</b> Prod. no.: 563113 	LUKOIL GENESIS SPECIAL VN 5W-30 is a high-performance synthetic, low ash fuel economy motor oil. It was developed especially for use in modern car engines and is ideal for BMW, Mercedes, and VW Group vehicles. The advanced additive technology allows maximum service intervals, is easy on the environment, and reliably protects the engine and particulate filter.	65.9	11.5	850	<b>ACEA C3,</b> <b>Fiat 9.55535-S3</b> <b>MB 229.31</b>	<b>API SN,</b> <b>BMW LL-04,</b> <b>MB-Approval 229.51,</b> <b>Porsche C30</b> <b>VW 504 00/ 507 00</b>
<b>LUKOIL GENESIS SPECIAL C1 5W-30</b> Prod. no.: 563106	LUKOIL GENESIS SPECIAL C1 5W-30 is a high-performance synthetic, extremely low ash fuel economy motor oil. It is ideal for modern car engines, especially vehicles with diesel particulate filters. The advanced additive technology allows maximum service intervals, is easy on the environment, and reliably protects the engine and particulate filter.	50.7	9.6	847	<b>ACEA C1/ C2,</b> <b>Jaguar Land Rover STJLR.03.5005</b>	
<b>LUKOIL GENESIS SPECIAL C2 0W-30</b> Prod. no.: 563108	LUKOIL GENESIS SPECIAL C2 0W-30 is a high-performance synthetic fuel economy motor oil. It has extremely good low-temperature characteristics (rapid lubrication under cold conditions) and saves fuel.	54.1	9.6	842	<b>ACEA C2,</b> <b>PSA B71 2312</b>	
<b>LUKOIL GENESIS SPECIAL C2 5W-30</b> Prod. no.: 563107	LUKOIL GENESIS SPECIAL C2 5W-30 is a high-performance synthetic, low ash fuel economy motor oil. It was developed especially for use in modern car engines and is ideal for Citroen, Peugeot, Honda, and Toyota vehicles. The advanced additive technology allows maximum service intervals, is easy on the environment, and reliably protects the engine and particulate filter.	59.4	10.4	848	<b>ACEA A1/B1, A5/B5, C2,</b> <b>API CF/ SN,</b> <b>Fiat 9.55535-S1/ S3,</b> <b>Iveco 18-1811 SC1,</b> <b>PSA B71 2290,</b> <b>Renault RN 0700</b>	




▼ Engine oils for passenger cars – LUKOIL GENESIS SPECIAL

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL GENESIS SPECIAL C3 5W-30</b> Prod. no.: 563104 	LUKOIL GENESIS SPECIAL C3 5W-30 is a high-performance synthetic, low ash fuel economy motor oil. It was developed especially for use in modern car engines and is ideal for vehicles with diesel particulate filters and unit injectors; the oil has worldwide approval for all GM diesel engines. The advanced additive technology allows maximum service intervals, is easy on the environment, and reliably protects the engine and particulate filter.	64.7	11.4	843	<b>ACEA C2/ C3,</b> <b>Fiat 9.55535-S3</b> <b>MB 226.5/ 229.31/ 229.51,</b> <b>PSA B71 2290</b>	<b>API SN,</b> <b>BMW LL-04,</b> <b>GM dexos2™ licensed D20271HC072,</b> <b>MB-Approval 229.52,</b> <b>Renault RN 0700/ 0710</b>
<b>LUKOIL GENESIS SPECIAL C3 5W-40</b> Prod. no.: 563105	LUKOIL GENESIS SPECIAL C3 5W-40 is a high-performance synthetic, low ash fuel economy motor oil. It was developed especially for use in modern car engines and is ideal for vehicles with diesel particulate filters and unit injectors; the oil has worldwide approval for all GM diesel engines. The advanced additive technology allows maximum service intervals, is easy on the environment, and reliably protects the engine and particulate filter.	76.7	13.2	849	<b>ACEA C3,</b> <b>API CF,</b> <b>Fiat 9.55535-S2</b> <b>MB 226.5/ 229.31</b>	<b>API SN,</b> <b>BMW LL-04,</b> <b>Ford WSS-M2C917-A,</b> <b>GM dexos2™ licensed GB2C0426072,</b> <b>MB-Approval 229.51,</b> <b>Porsche A40,</b> <b>Renault RN 0700/ 0710,</b> <b>VW 502 00/ 505 00/ 505 01</b>
<b>LUKOIL GENESIS SPECIAL XFE 5W-30</b> Prod. no.: 563118	LUKOIL GENESIS SPECIAL XFE 5W-30 is a synthetic smooth running engine oil for state-of-the-art gasoline engines. It holds great power reserves ready and allows extreme fuel economy. The new additive technology spares not only the environment, but also keeps the turbocharger and intercooler clean.	62.3	11.25	848		<b>API SN-RC,</b> <b>GM dexos1™ Gen2-licensed</b> <b>D10531HH072,</b> <b>ILSAC GF-5</b>
<b>LUKOIL GENESIS SPECIAL C4 5W-30</b> Prod. no.: 563111	LUKOIL GENESIS SPECIAL C4 5W-30 is a high-performance synthetic, extremely low ash fuel economy motor oil. It was developed especially for use in modern car engines and is ideal for Renault and Nissan vehicles. The advanced additive technology allows maximum service intervals, is easy on the environment, and reliably protects the engine and particulate filter.	69.6	12.0	850	<b>ACEA C4</b>	<b>MB-Approval 226.51/ 229.51</b> <b>Renault RN 0720</b>

▼ Engine oils for passenger cars – LUKOIL GENESIS SPECIAL



Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL GENESIS SPECIAL FD 0W-30</b> Prod. no.: 563116	LUKOIL GENESIS SPECIAL FD 0W-30 is a synthetic, low-friction engine oil, especially for the new Ford TDCI Duratorq Euro 6 diesel engines was developed. It guarantees highest engine cleanliness thanks to the latest additive technology, a reduced friction of the moving parts, as well a long life of the engine. This improves the performance and fuel efficiency even further.	45.3	9.5	839	<b>ACEA C2,</b> <b>Fiat 9.55535-DS1/ GS1</b>	<b>Ford WSS-M2C950-A</b>
<b>LUKOIL GENESIS SPECIAL FD 5W-20</b> Prod. no.: 563115	LUKOIL GENESIS SPECIAL FD 5W-20 is a high-performance synthetic fuel economy motor oil. It was developed especially for modern car engines such as the Ford EcoBoost engines.	44.7	8.3	851	<b>ACEA A1/B1,</b> <b>Fiat 9.55535-CR1,</b> <b>Ford WSS-M2C948-A,</b> <b>ILSAC GF-5</b>	<b>API SN, SN-RC,</b> <b>Ford WSS-M2C948-B,</b> <b>Jaguar Land Rover ST JLR.03.5004</b>
<b>LUKOIL GENESIS SPECIAL A5/B5 5W-30</b> Prod. no.: 563100	LUKOIL GENESIS SPECIAL A5/B5 5W-30 is a high-performance synthetic fuel economy motor oil. It was developed especially for use in modern car engines and is ideal for Ford vehicles. Not including: Ford KA model year August 2008 and later, Ford Galaxy 1.9 TDI, and Ford Focus RS model year March 2009 and later. The advanced additive technology allows maximum service intervals.	52.8	9.72	848	<b>ACEA A1/B1, A5/B5,</b> <b>API CF,</b> <b>Ford WSS-M2C913-A/ B/ C,</b> <b>Iveco 18-1811 S1</b>	<b>API SL,</b> <b>Ford WSS-M2C913-D,</b> <b>Jaguar Land Rover ST JLR.03.5003,</b> <b>Renault RN 0700</b>
<b>LUKOIL GENESIS SPECIAL A5/B5 0W-30</b> Prod. no.: 563112	LUKOIL GENESIS SPECIAL A5/B5 0W-30 is a high-performance fully synthetic fuel economy motor oil. It allows for extended service intervals, extreme reliability, and an extra safety margin. Recommended for Volvo cars!	53.6	10.2	844	<b>ACEA A1/B1, A5/B5,</b> <b>API SL,</b> <b>Renault RN 0700</b>	<b>VOLVO 95200377</b>
<b>LUKOIL GENESIS SPECIAL VL 0W-20</b> Prod. no.: 563102	LUKOIL GENESIS SPECIAL VL 0W-20 is a high-performance fully synthetic fuel economy motor oil. It allows for extended service intervals, extreme reliability, and an extra safety margin. Recommended for Volvo cars!	48.2	9.2	843	<b>ACEA A1/B1,</b> <b>Fiat 9.55535-DSX</b>	<b>VOLVO VCC-RBSO-2AE</b>

▼ Engine oils for passenger cars – LUKOIL GENESIS SPECIAL









Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL GENESIS SPECIAL MC 0W-20</b> Prod. no.: 563021	LUKOIL GENESIS SPECIAL MC 0W-20 is a special developed product for the latest diesel and gasoline engines of MB/Daimler that require a 0W-20 lubricant with specification MB 229.71. It is strongly recommended as all-season oil in high performance gasoline and diesel engines including supercharged, turbocharged and highly forced sport car engines, especially where low viscosity, high fuel economy and aftertreatment systems compatible engine oils are required.	38.7	7.86	840		MB-Approval 229.71
<b>LUKOIL GENESIS SPECIAL MD 0W-30</b> Prod. no.: 563031	LUKOIL GENESIS SPECIAL MD 0W-30 has been specially designed for the use in modern diesel and petrol engines of MB/Daimler, which is an engine oil with the viscosity 0W-30 and specification MB 229.61 prescribe.	47.4	9.6	842		MB-Approval 229.61
<b>LUKOIL GENESIS SPECIAL FE 0W-20</b> Prod. no.: 563114 	LUKOIL GENESIS SPECIAL FE 0W-20 is a newly developed synthetic fuel economy motor oil for petrol engines in fuel efficient and hybrid vehicles. Get the most out of your engine while using as little fuel as possible.	45.2	8.5	849	Fiat 9.55535-CR1	API SN, SN-RC, ILSAC GF-5
<b>LUKOIL GENESIS SPECIAL JLR 0W-20</b> Prod. no.: 563119	LUKOIL GENESIS SPECIAL JLR 0W-20 is a fully synthetic low-friction engine oil for petrol and diesel-powered high-performance motors with and without DPF. Specially developed for Jaguar and Land Rover.	38.5	8.1	836	ACEA A1/B1, C5, MB 229.71	Jaguar Land Rover ST JLR.51.5122



▼ Engine oils for passenger cars – LUKOIL GENESIS SPECIAL/ADVANCED

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL GENESIS SPECIAL 5W-40</b> Prod. no.: 563002 	LUKOIL GENESIS SPECIAL 5W-40 is a synthetic fuel economy motor oil for cars with petrol engines and diesel engines without particulate filters. The advanced additive technology offers the best reliability and provides high safety margins and performance reserves.	83.9	13.85	844	ACEA A3/B3, A3/B4, API CF, Fiat 9.55535-N2/ Z2, MB 229.3, Opel GM-LL-B-025, PSA B71 2296	API SN, BMW LL-01, MB-Approval 226.5/ 229.5, Porsche A40, Renault RN 0700/ 0710, VW 502 00/ 505 00
<b>LUKOIL GENESIS ADVANCED 5W-40</b> Prod. no.: 563041	LUKOIL GENESIS ADVANCED 5W-40 is a semi-synthetic Smooth running engine oil for passenger car gasoline and diesel engines without diesel particulate filter. LUKOIL GENESIS ADVANCED 5W-40 reduces friction during cold operation and protects the engine rapid oiling, especially in the warm-up phase of the engine.	76	13.1	852	ACEA A3/B3, A3/B4, API CF, Fiat 9.55535-H2/ M2/ N2, PSA B71 2296, Renault RN 0700/ 0710	API SN, MB-Approval 229.3, VW 502 00/ 505 00
<b>LUKOIL GENESIS ADVANCED 10W-40</b> Prod. no.: 563040	LUKOIL GENESIS ADVANCED 10W-40 is a synthetic fuel economy motor oil for cars with petrol engines and diesel engines without particulate filters.	80.7	13,1	858	ACEA A3/B3, A3/B4, API CF, Fiat 9.55535-G2, Opel GM-LL-A-025/ -B-025, PSA B71 2294/ B71 2300, Renault RN 0700/ 0710, VW 502 00/ 505 00	API SN, MB-Approval 229.3
<b>LUKOIL GENESIS SPECIAL RACING 10W-60</b> Prod. no.: 563109 	LUKOIL GENESIS SPECIAL RACING 10W-60 is a high-performance fully synthetic motor oil. It is ideal for four-stroke engines that are used under extreme conditions, for example in motor sports.	153.1	21.9	854	ACEA A3/B3, A3/B4, API SN, Fiat 9.55535-H3	

+ 1 liter at every service visit

Therefore an additional liter should be offered to every customer	Benefits and arguments for your customers
► <b>At oil change</b>	 Elimination of technical problems – the same oil which is used when changing the oil is given
	 Workshops know best suitable oil qualities. By using inadequate lubricants you lose the advantage of increased oil intervals.
	 Extended oil change intervals require special oils which are often not available at retail stations.
► <b>At new car sales</b>	 Reference to normal oil consumption as given in the user's manual
	 Extended oil change intervals require special oils which are often not available at retail stations.
	 Workshops know best suitable oil qualities. By using inadequate lubricants you lose the advantage of increased oil intervals.
► <b>At non-oil change (other services)</b>	 Oil level check is required as 32% of vehicles are used with low oil level, which can damage the engine
	 Safety on the road



## ▼ WHICH MOTOR OIL DO YOU NEED?

Car Brand	Motor Type Gasoline Engine Diesel Engines without particle filter	Motor Type Gasoline Engine (Euro 6) Diesel Engines with particle filter
Alfa Romeo***	LUKOIL GENESIS SPECIAL 5W-40 <sup>1,7</sup>	LUKOIL GENESIS SPECIAL C3 5W-40 <sup>2</sup>
Audi	LUKOIL GENESIS SPECIAL VN 5W-30 <sup>4</sup>	LUKOIL GENESIS SPECIAL VN 5W-30 <sup>9</sup>
BMW	LUKOIL GENESIS SPECIAL C3 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30
Chevrolet/Daewoo	LUKOIL GENESIS SPECIAL C3 5W-30/ 5W-40 <sup>2</sup>	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>8</sup>
Chrysler/Jeep**	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>2</sup>	LUKOIL GENESIS SPECIAL C3 5W-30/ 5W-40 <sup>7</sup>
Citroen	LUKOIL GENESIS SPECIAL C2 5W-30 <sup>3</sup>	LUKOIL GENESIS SPECIAL C2 5W-30 <sup>6</sup>
Dacia	LUKOIL GENESIS SPECIAL 5W-40	LUKOIL GENESIS SPECIAL C4 5W-30 <sup>4</sup>
Fiat**	LUKOIL GENESIS SPECIAL 5W-40 <sup>7</sup>	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>2,4,7,10</sup>
Ford**	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL A5/B5 5W-30 <sup>4,7</sup>
Honda	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>6</sup>
Hyundai**	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30
Jaguar**	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C1 5W-30 <sup>13</sup>
KIA**	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30
Land Rover	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C1 5W-30
Mazda	LUKOIL GENESIS SPECIAL A5/B5 5W-30 <sup>3</sup>	LUKOIL GENESIS SPECIAL C1 5W-30 <sup>4</sup>
Mercedes Benz	LUKOIL GENESIS SPECIAL 5W-40	LUKOIL GENESIS SPECIAL C3 5W-30/5W-40 <sup>11,12</sup>
Mini	LUKOIL GENESIS SPECIAL C3 5W-40 <sup>3</sup>	LUKOIL GENESIS SPECIAL C3 5W-40
Mitsubishi****	LUKOIL GENESIS SPECIAL A5/B5 5W-30 <sup>3</sup>	LUKOIL GENESIS SPECIAL C3 5W-30
Nissan	LUKOIL GENESIS SPECIAL A5/B5 5W-30 <sup>3</sup>	LUKOIL GENESIS SPECIAL C4 5W-30 <sup>4</sup>
Opel	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>3</sup>	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>4,8</sup>
Peugeot	LUKOIL GENESIS SPECIAL 5W-40	LUKOIL GENESIS SPECIAL C2 5W-30 <sup>6</sup>
Porsche	LUKOIL GENESIS SPECIAL C3 5W-40	LUKOIL GENESIS SPECIAL VN 5W-30 <sup>9</sup>
Renault	LUKOIL GENESIS SPECIAL C3 5W-40	LUKOIL GENESIS SPECIAL C4 5W-30 <sup>4</sup>
Seat	LUKOIL GENESIS SPECIAL VN 5W-30	LUKOIL GENESIS SPECIAL VN 5W-30 <sup>4,9</sup>
Skoda	LUKOIL GENESIS SPECIAL VN 5W-30	LUKOIL GENESIS SPECIAL VN 5W-30 <sup>4,9</sup>
Smart	LUKOIL GENESIS SPECIAL 5W-40 <sup>4</sup>	LUKOIL GENESIS SPECIAL C3 5W-30
Subaru*	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>6,8</sup>
Suzuki*	LUKOIL GENESIS SPECIAL 5W-40	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>6,10</sup>
Toyota*	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>6,8</sup>
VW	LUKOIL GENESIS SPECIAL VN 5W-30	LUKOIL GENESIS SPECIAL VN 5W-30 <sup>4,9</sup>
Volvo***	LUKOIL GENESIS SPECIAL A5/B5 0W-30	LUKOIL GENESIS SPECIAL A5/B5 0W-30



Further information for additional car brands are available under the LUKOIL Oilfinder [www.lukoil-lubricants.eu](http://www.lukoil-lubricants.eu) or [technics.lubes@lukoil.com](mailto:technics.lubes@lukoil.com)

### Attention:

- <sup>1)</sup> Alfa Romeo/Lancia alternative: **LUKOIL GENESIS SPECIAL RACING 10W-60**
- <sup>2)</sup> by regulation ACEA C2 or Fiat 9.55535 S1/S3: **LUKOIL GENESIS SPECIAL C2 5W-30**
- <sup>3)</sup> by regulation PSA B71 2296 or PSA B71 2293 or older models: **LUKOIL GENESIS SPECIAL 5W-40**
- <sup>4)</sup> by regulation ACEA C3, dexos2, Fiat 9.55535-S3 (5W-30), Ford WSS M2C-917-A (5W-40), Fiat 9.55535-S2 (5W-40) VW 502.00/ 505.00/ VW 505.01 (5W-40):  
**LUKOIL GENESIS SPECIAL C3 5W-30 or 5W-40**
- <sup>5)</sup> by regulation ACEA A5/B5 5W-30: **LUKOIL GENESIS SPECIAL A5/B5 5W-30**
- <sup>6)</sup> by regulation PSA B71 2312 or ACEA C2 0W-30: **LUKOIL GENESIS SPECIAL C2 0W-30**
- <sup>7)</sup> by regulation FORD WSS M2C-950A (Euro 6), Fiat 9.55535-GS1 and DS-1 Alfa Romeo/Lancia, Fiat, Jeep: **LUKOIL GENESIS SPECIAL FD 0W-30**
- <sup>8)</sup> by regulation dexos1-Gen2, API SN-RC or ILSAC GF-5: **LUKOIL GENESIS SPECIAL XFE 5W-30**
- <sup>9)</sup> by regulation VW 508.00/ 509.00, Porsche C20 0W-20: **LUKOIL GENESIS SPECIAL VN 0W-20**
- <sup>10)</sup> by regulation Fiat 9.55535-S4 or ACEA C4 and Suzuki Grand Vitara Euro5 DPF:  
**LUKOIL GENESIS SPECIAL C4 5W-30**
- <sup>11)</sup> by regulation MB 229.71: **LUKOIL GENESIS SPECIAL MC 0W-20**
- <sup>12)</sup> by regulation MB 229.61: **LUKOIL GENESIS SPECIAL MD 0W-30**
- <sup>13)</sup> by regulation Jaguar Land Rover ST JLR 51.5122: **LUKOIL GENESIS SPECIAL JLR 0W-20**

\* API SM/SN, ILSAC GF-5 SAE 0W-20: Recommendations **LUKOIL GENESIS SPECIAL FE 0W-20**

\*\* Ford WSS-M2C948-A and B (EcoBoost-Motoren), Jeep, Fiat 9.55535-CR1, ILSAC GF-5, Jaguar Land Rover ST JLR.03.5004: Recommendations **LUKOIL GENESIS SPECIAL FD 5W-20**

\*\*\* Volvo VCC RBS0-2AE, Fiat 9.55535-DSX 0W-20:  
Recommendations **LUKOIL GENESIS SPECIAL VL 0W-20**

\*\*\*\* Mitsubishi with VW Motor: Recommendations **LUKOIL GENESIS SPECIAL VN 5W-30**

The above recommendations are a summary to serve as an initial orientation when choosing LUKOIL motor oils. Please always refer to information in the car manufacturer's service documents, as only these recommendations are binding.

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Status 01/2018, recommendation for motor vehicles from 2004





LUXE

LUKOIL

MOTOR OIL

We love  
your engine



▼ Engine oils for passenger cars – LUKOIL LUXE

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL LUXE SYNTHETIC 5W-30</b> Prod. no.: 568107	LUKOIL LUXE SYNTHETIC 5W-30 is a synthetic multigrade engine oil for modern highly forced gasoline and direct-injection diesel engines including turbocharged. LUKOIL LUXE SYNTHETIC 5W-30 is specially developed for FORD cars according to the specification Ford WSS-M2C913-C.	51.7	9.6	844	<b>ACEA</b> A1/B1, A5/B5, <b>API</b> CF, <b>Fiat</b> 9.55535-G1, <b>Ford</b> WSS-M2C913-A/ B/ C/ D	<b>API</b> SL, <b>Renault</b> RN 0700
<b>LUKOIL LUXE SYNTHETIC 5W-40</b> Prod. no.: 568108	LUKOIL LUXE SYNTHETIC 5W-40 is synthetic multigrade engine oil meeting requirements of API SN/CF, ACEA A3/B4. The product was formulated using high-quality base oils and modern additive technology.	74.1	13.2	845	<b>ACEA</b> A3/B3, A3/B4, <b>API</b> CF, <b>Fiat</b> 9.55535-N2/ Z2, <b>PSA</b> B71 2296	<b>API</b> SN, <b>MB-Approval</b> 226.5/ 229.5 <b>Renault</b> RN 0700/ 0710, <b>VW</b> 502 00/ 505 00
<b>LUKOIL LUXE VN 5W-30</b> Prod. no.: 568112	LUKOIL LUXE VN 5W-30 is a synthetic, low ash low-friction engine oil for the highest performance requirements. It is ideal for modern car engines, especially for vehicles with diesel particulate filter and pump Nozzle injection.	64.9	11.4	848	<b>ACEA</b> C3, <b>BMW</b> LL-04, <b>MB</b> 229.31/ 229.51, <b>Porsche</b> C30, <b>VW</b> 504 00/ 507 00	
<b>LUKOIL LUXE C3 5W-30</b> Prod. no.: 568111	LUKOIL LUXE C3 5W-30 is an ashless synthetic smooth running engine oil for modern petrol and diesel engines with particle filter. The new midSAPS technology does not help only the environment, but also the diesel particulate filter.	66.4	11.5	846	<b>ACEA</b> C3, <b>API</b> CF/ SN, <b>BMW</b> LL-04, <b>MB</b> 226.5/ 229.31/ 229.51, <b>Renault</b> RN 0700/ 0710	
<b>LUKOIL LUXE C3 5W-40</b> Prod. no.: 568110	LUKOIL LUXE C3 5W-40 is an ashless synthetic smooth running engine oil for modern petrol and diesel engines with particle filter. The new midSAPS technology does not help only the environment, but also the diesel particulate filter.	76.2	13.5	845	<b>ACEA</b> C3, <b>API</b> CF/ SN, <b>BMW</b> LL-04, <b>MB</b> 226.5/ 229.31/ 229.51, <b>Porsche</b> A40, <b>Renault</b> RN 0700/ 0710	

▼ Engine oils for passenger cars – LUKOIL LUXE

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL LUXE A3/B4 10W-40</b> Prod. no.: 568109	LUKOIL LUXE A3/B4 10W-40 is a semi-synthetic low-friction engine oil for passenger car gasoline and diesel engines without diesel particulate filter. LUKOIL LUXE A3/B4 10W-40 is turbocharged catalyst suitable and offers high power reserves within the permissible oil change intervals.	75.4	12.7	856	<b>ACEA</b> A3/B3, A3/B4, <b>API</b> CF/ SN, <b>Fiat</b> 9.55535-G2, <b>MB</b> 229.3, <b>Opel</b> GM-LL-A-025/ B-025, <b>PSA</b> B71 2294/ 2300, <b>Renault</b> RN 0700/ 0710, <b>VW</b> 502 00/505 00	
<b>LUKOIL LUXE 10W-40</b> Prod. no.: 568113	LUKOIL LUXE 10W-40 is a semi synthetic multigrade engine oil for year-round operation of passenger cars with gasoline and diesel engines.	93.5	13.9	871	<b>API</b> CF	<b>API</b> SL
<b>LUKOIL LUXE 15W-40</b> Prod. no.: 568114	LUKOIL LUXE 15W-40 is a multi-zone mineral engine oil for year-round operation of car engines, that from high quality base oils and new additive technology will be produced.	104.5	14	882	<b>API</b> CF/ SL	
<b>LUKOIL LUXE 20W-50</b> Prod. no.: 568115	LUKOIL LUXE 20W-50 is a multi-grade mineral engine oil for year-round operation of car engines, made of high quality base oils and a robust additive package is produced.	93	13.5	871	<b>API</b> CF/ SL	



# ENGINE OILS FOR COMMERCIAL VEHICLES



**LUKOIL AVANTGARDE**  
DEVELOPED INTERNATIONALLY – REFINED IN AUSTRIA

▼ Engine oils for commercial vehicles

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL AVANTGARDE PROFESSIONAL LE 5W-30</b> Prod. no.: 568359	LUKOIL AVANTGARDE PROFESSIONAL LE 5W-30 is a synthetic, ash-poor high performance commercial vehicle engine oil for highest exhaust emissions limits. The innovative formulation was specially designed for commercial vehicle engines with SCR system and particle filter developed according to emission regulations EURO V & VI. Usable according to manufacturer's instructions also in EURO 0, I, II, III & IV engines.	70.7	12.1	859.7	ACEA E4/ E6/ E7/ E9 Caterpillar ECF-3, Cummins CES 20081, Detroit Diesel DFS 93K218, MTU Oil Category 2.1, ZF-TE-ML 07D	API CJ-4, Deutz DQC IV-10 LA, Mack EO-O Premium Plus, MAN M 3271-1/ 3477/ 3575/ 3677, MB-Approval 228.31/ 228.51, MTU Oil Category 3.1, Renault VI RLD-3, Scania LA/ LDF-4, VOLVO VDS-4
<b>LUKOIL AVANTGARDE PROFESSIONAL LE 10W-40</b> Prod. no.: 568368	LUKOIL AVANTGARDE PROFESSIONAL LE 10W-40 is a synthetic, ash-poor high performance commercial vehicle engine oil for highest exhaust emissions limits. The innovative formulation was specially developed for commercial vehicle engines, which emissions regulation EURO V & VI meet and with AGR/SCR technology and particle filters can be equipped developed. According to manufacturer's instructions can also be used in EURO 0, I, II, III & IV engines.	95	14.4	862	ACEA E4/E6/E7/E9 Caterpillar ECF-3, Detroit Diesel DDC 93K218, JASO DH-2, MB 228.31, MTU Oil Category 2.1	API CJ-4, Cummins CES 20081, Deutz DQC IV-10 LA, Mack EO-O Premium Plus, MAN M 3271-1/ 3477/ 3575, MB-Approval 228.51, MTU Oil Category 3.1, Renault VI RLD-3, Scania LA, VOLVO VDS-4
<b>LUKOIL AVANTGARDE PROFESSIONAL LS5 10W-40</b> Prod. no.: 568366	LUKOIL AVANTGARDE PROFESSIONAL LS5 10W-40 is a synthetic, ash-poor high performance commercial vehicle engine oil for highest exhaust emissions limits. The innovative formulation was specially designed for commercial vehicle engines with SCR system and particle filter developed according to emission regulations EURO V & VI. Usable according to manufacturer's instructions also in EURO 0, I, II, III & IV engines.	77	12.3	854	ACEA E6/ E7, API CI-4 , Cummins CES 20076/ 20077, DAF, JASO DH-2, MB 228.31, Renault VI RGD/ RXD, ZF-TE-ML 03A/ 05K/ 07D/ 21K	Deutz DQC III-10 LA, Mack EO-N, MAN M 3271-1/ 3477, MB-Approval 228.51, MTU Oil Category 3.1, Renault VI RLD-2, VOLVO VDS-3



▼ Engine oils for commercial vehicles

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL AVANTGARDE PROFESSIONAL LS5 10W-30</b> Prod. no.: 568345	LUKOIL AVANTGARDE PROFESSIONAL LS5 10W-30 is a synthetic, ash-poor high performance commercial vehicle engine oil for highest exhaust emissions limits. The innovative formulation was specially designed for commercial vehicle engines with SCR system and particle filter according to the emission regulations EURO V & VI developed. Usable according to manufacturer's instructions also in EURO 0, I, II, III & IV engines.	78.8	12.2	859	ACEA E6/E7/E9 API CI-4, Cummins CES 20076/ 20077, DAF, Deutz DQC IV-10 LA, Mack EO-N, MAN M 3271-1/ 3477, MB 228.51, MTU Oil Category 3.1, Renault VI RLD-2, Scania LA, VOLVO VDS-3	
<b>LUKOIL AVANTGARDE PROFESSIONAL M6 10W-40</b> Prod. no.: 568375	LUKOIL AVANTGARDE PROFESSIONAL M6 10W-40 is a synthetic ultra-high-performance diesel engine oil (UHPD) for highest performance requirements, especially for modern, low-emission commercial vehicle diesel engines (also SCR) and longest oil change intervals, especially for MAN commercial vehicles.	91.3	14.3	867	ACEA E4/ E7, Caterpillar ECF-2, Cummins CES 20078, DAF HP-2, Detroit Diesel DDC 93K215, Global DHD-1, Mack EO-M Plus, Renault RXD	API CI-4, Deutz DQC IV-10, Mack EO-N, MAN M 3277/ 3377, MB-Approval 228.5, MTU Oil Category 3, Renault VI RLD-2, VOLVO VDS-3
<b>LUKOIL AVANTGARDE PROFESSIONAL 10W-40</b> Prod. no.: 568351	LUKOIL AVANTGARDE PROFESSIONAL 10W-40 is a synthetic ultra high performance diesel engine oil (UHPD) for highest performance requirements, especially for modern ones low emission commercial vehicle diesel engines (also SCR) and longest oil change intervals, especially for SCANIA commercial vehicles. It is guaranteed by the use of the most modern base oil and additive technology highest engine cleanliness.	89.5	13.75	858.3	ACEA E4/ E7, API CF, Cummins CES 20072, DAF HP 2, IVECO 18-1804 T3 E4, Mack EO-M Plus, Renault VI RXD, ZF-TE-ML 04C	Deutz DQC III-10, Mack EO-N, MAN M 3277, MB-Approval 228.5, MTU Oil Category 3, Renault VI RLD-2, Scania LDF-3, VOLVO VDS-3

▼ Engine oils for commercial vehicles

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL AVANTGARDE PROFESSIONAL 5W-30</b> Prod. no.: 568360	LUKOIL AVANTGARDE PROFESSIONAL 5W-30 is a synthetic super ultra high-performance diesel motor oil (SUHPD) and is designed especially for modern, low-emission (including SCR) diesel engines in utility vehicles and maximum service intervals. It has excellent low-friction characteristics and reduces fuel consumption in all high-performance utility vehicle diesel engines.	71.8	12.1	857.8	<b>ACEA</b> E4/ E7, <b>Caterpillar</b> ECF-2, <b>Cummins</b> CES 20076/ 20078, <b>DAF</b> HP 1, <b>Global</b> DHD-1, <b>JASO</b> DH-1, <b>Mack</b> EO-M Plus, <b>Renault</b> VI RXD, <b>Scania</b> LDF, <b>ZF-TE-ML</b> 07D	<b>API</b> CI-4, <b>Deutz</b> DQC IV-10, <b>Mack</b> EO-N, <b>MAN</b> M 3277/ 3377, <b>MB-Approval</b> 228.5, <b>MTU</b> Oil Category 3, <b>Renault</b> VI RLD-2, <b>VOLVO</b> VDS-3
<b>LUKOIL AVANTGARDE PROFESSIONAL M5 10W-40</b> Prod. no.: 568363	LUKOIL AVANTGARDE PROFESSIONAL M5 10W-40 is a synthetic ultra high performance diesel engine oil (UHPD) for highest performance requirements, especially for modern, low-emission commercial vehicle diesel engines in accordance with specifications of OEMs MAN, Mercedes-Benz and MTU.	102.6	15.1	873.5	<b>ACEA</b> E4/ E7, <b>ZF-TE-ML</b> 03A/ 05K/ 07D/ 21K	<b>API</b> CI-4, <b>Cummins</b> CES 20078, <b>Deutz</b> DQC III-10, <b>MAN</b> M 3277, <b>MB-Approval</b> 228.5, <b>MTU</b> Oil Category 3
<b>LUKOIL AVANTGARDE PROFESSIONAL LA 10W-30</b> Prod. no.: 568356	LUKOIL AVANTGARDE PROFESSIONAL LA 10W-30 is a synthetic low ash utility vehicle oil for extremely stringent emissions limits. The innovative formula was developed especially for EURO V & VI utility vehicle engines with AGR, SCR, and particulate filters. Also compatible with EURO 0, I, II, III & IV engines according to the manufacturer's instructions.	80	11.9	867.2	<b>ACEA</b> E9, <b>API</b> SM, <b>Caterpillar</b> ECF-1-α/ ECF-2/ ECF-3, <b>Cummins</b> CES 20081, <b>ZF-TE-ML</b> 05K/ 07D/ 21K	<b>API</b> CJ-4/SN, <b>Deutz</b> DQC III-10 LA, <b>Mack</b> EO-O Premium Plus, <b>MAN</b> M 3575, <b>MB-Approval</b> 228.31, <b>MTU</b> Oil Category 2.1, <b>Renault</b> VI RLD-3, <b>VOLVO</b> VDS-4
<b>LUKOIL AVANTGARDE PROFESSIONAL LA 10W-40</b> Prod. no.: 568357	LUKOIL AVANTGARDE PROFESSIONAL LA 10W-30 is a synthetic low ash utility vehicle oil for extremely stringent emissions limits. The innovative formula was developed especially for EURO V & VI utility vehicle engines with AGR, SCR, and particulate filters. Also compatible with EURO 0, I, II, III & IV engines according to the manufacturer's instructions.	99	14.6	858	<b>ACEA</b> E9, <b>API</b> SM/ SN, <b>Caterpillar</b> ECF-1-α/ ECF-2/ ECF-3, <b>Detroit Diesel</b> DDC 93K218, <b>ZF-TE-ML</b> 04P/ 05K/ 07D/ 21K	<b>API</b> CJ-4, <b>Cummins</b> CES 20081, <b>Deutz</b> DQC III-10-LA, <b>Mack</b> EO-O Premium Plus, <b>MAN</b> M 3575, <b>MB-Approval</b> 228.31, <b>MTU</b> Oil Category 2.1, <b>Renault</b> VI RLD-3, <b>VOLVO</b> VDS-4

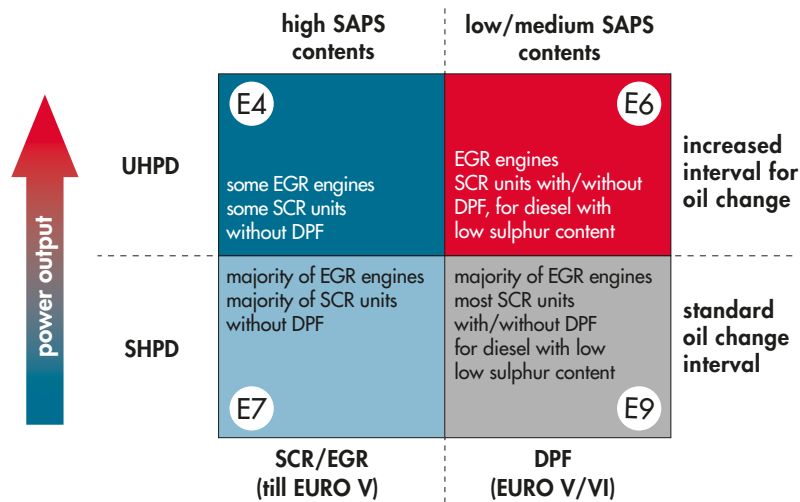
▼ Engine oils for commercial vehicles

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL AVANTGARDE PROFESSIONAL LA 15W-40</b> Prod. no.: 568358	LUKOIL AVANTGARDE PROFESSIONAL LA 15W-40 is a synthetic low ash utility vehicle oil for extremely stringent emissions limits. The innovative formula was developed especially for EURO V & VI utility vehicle engines and/or SCR, and particulate filters.	109	14.6	872	<b>ACEA E9,</b> <b>API SM,</b> <b>Caterpillar ECF-3,</b> <b>Deutz DQC III-10 LA,</b> <b>ZF-TE-ML 04P/ 07D</b>	<b>API CJ-4/ SN,</b> <b>Cummins CES 20081,</b> <b>Mack EO-O Premium Plus,</b> <b>MAN M 3575,</b> <b>MB-Approval 228.31,</b> <b>MTU Oil Category 2.1,</b> <b>Renault VI RLD-3,</b> <b>VOLVO VDS-4</b>
<b>LUKOIL AVANTGARDE PROFESSIONAL XLA 10W-30</b> Prod. no.: 568380	LUKOIL AVANTGARDE PROFESSIONAL XLA 10W-30 is a synthetic low ash utility vehicle oil for extremely stringent emissions limits. The innovative formula was developed especially for EURO V & VI utility vehicle engines with AGR, SCR, and particulate filters.	76	11.9	864	<b>ACEA E9,</b> <b>Caterpillar ECF-1-a/ ECF-2/ ECF-3,</b> <b>Cummins CES 20086,</b> <b>Detroit Diesel 93K222,</b> <b>Ford M2C171-F1</b>	<b>API CK-4,</b> <b>Mack EOS-4.5,</b> <b>Renault VI RLD-4,</b> <b>VOLVO VDS-4.5</b>
<b>LUKOIL AVANTGARDE PROFESSIONAL XLA 15W-40</b> Prod. no.: 568382	LUKOIL AVANTGARDE PROFESSIONAL XLA 15W-40 is a Engine oil for heavy duty engines of the newest Generation especially for trucks with particle filter and/or SCR technology. Specially developed for VOLVO EURO 6 with DPF.	111	15.2	872	<b>ACEA E9,</b> <b>Caterpillar ECF-1-a/ ECF-2/ ECF-3,</b> <b>Cummins CES 20086,</b> <b>Detroit Diesel 93K222,</b> <b>Ford M2C171-F1</b>	<b>API CK-4,</b> <b>Mack EOS-4.5,</b> <b>Renault VI RLD-4,</b> <b>VOLVO VDS-4.5</b>
<b>LUKOIL AVANTGARDE ULTRA PLUS 10W-40</b> Prod. no.: 567820	LUKOIL AVANTGARDE ULTRA PLUS 10W-40 is a synthetic super high-performance diesel (SHPD) fuel economy oil for mixed fleets with extended service intervals. Also suitable for cars with petrol engines and diesel engines without particulate filters.	90	13.8	871.1	<b>ACEA E7,</b> <b>Caterpillar ECF-1-a/ ECF-2,</b> <b>Cummins CES 20076/ 20077,</b> <b>Global DHD-1,</b> <b>Mack EO-M Plus,</b> <b>Renault VI RLD,</b> <b>ZF-TE-ML 03A/ 05K/ 07D/ 21K</b>	<b>API CI-4/ SL,</b> <b>Cummins CES 20078</b> <b>Deutz DQC III-10,</b> <b>Mack EO-N,</b> <b>MAN M 3275-1,</b> <b>MB-Approval 228.3,</b> <b>MTU Oil Category 2,</b> <b>Renault VI RLD-2,</b> <b>VOLVO VDS-3</b>

▼ Engine oils for commercial vehicles

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL AVANTGARDE ULTRA 15W-40</b> Prod. no.: 568321	LUKOIL AVANTGARDE ULTRA 15W-40 is a super high-performance diesel (SHPD) multigrade motor oil for mixed fleets and extended service intervals. Also suitable for cars with petrol engines and diesel engines without particulate filters.	113	15.1	885.4	<b>ACEA E7,</b> <b>Caterpillar</b> ECF-1-a/ ECF-2, <b>Cummins</b> CES 20071/ 20072/ 20076/ 20077, <b>DAF,</b> <b>Detroit Diesel</b> DFS 93K215, <b>Mack</b> EO-M Plus, <b>ZF-TE-ML</b> 03A/ 04P/ 07D	<b>API</b> CI-4/ SL, <b>Cummins</b> CES 20078, <b>Deutz</b> DQC III-10, <b>Mack</b> EO-N, <b>MAN</b> M 3275-1, <b>MB-Approval</b> 228.3, <b>MTU</b> Oil Category 2, <b>Renault</b> VI RLD-2, <b>VOLVO</b> VDS-3
<b>LUKOIL AVANTGARDE ULTRA 20W-50</b> Prod. no.: 568320	LUKOIL AVANTGARDE ULTRA 20W-50 is a super high performance diesel (SHPD) multi-grade engine oil for the mixed fleet and extended oil change intervals. Also for cars petrol and diesel engines without diesel particulate filter suitable. The SAE viscosity class 20W-50 has become well proven at higher ambient temperatures.	171	18.1	889	<b>ACEA E7,</b> <b>API</b> CI-4/ SL, <b>MB</b> 228.3	
<b>LUKOIL AVANTGARDE EXTRA 15W-40</b> Prod. no.: 567915	LUKOIL AVANTGARDE EXTRA 15W-40 is a high performance diesel (HPD) multigrade engine oil for the mixed fleet. Also for car Ottound Diesel engines without diesel particulate filter suitable.	104	14.2	875	<b>API</b> CG-4/ CH-4/ SJ, <b>Cummins</b> CES 20076, <b>Deutz</b> DQC II, <b>Mack</b> EO-M, <b>MAN</b> 271, <b>Renault</b> VI RLD, <b>VOLVO</b> VDS-2, <b>ZF-TE-ML</b> 03A/ 04P/ 07D	

## Heavy Duty Specification Overview



**UHPD:** Ultra High Performance Diesel engine oil

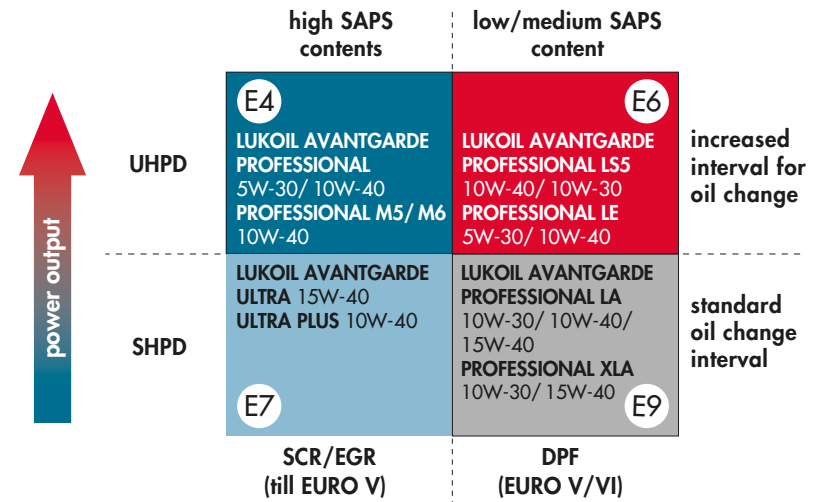
**SHPD:** Super High Performance Diesel engine oil

**EGR:** Exhaust Gas Recirculation

**SCR:** Selective Catalytic Reduction with AdBlue to reduce NOx emissions

**DPF:** Diesel Particulate Filter to reduce particle emissions

## LUKOIL Heavy Duty Top Range







Further information for additional car brands are available under the LUKOIL Oilfinder [www.lukoil-lubricants.eu](http://www.lukoil-lubricants.eu) or [technics.lubes@lukoil.com](mailto:technics.lubes@lukoil.com)

▼ WHICH MOTOR OIL DO YOU NEED?

PRODUKT	LUKOIL AVANTGARDE PROFESSIONAL				LUKOIL AVANTGARDE PROFESSIONAL LA			LUKOIL AVANTGARDE PROFESSIONAL XLA		LUKOIL AVANTGARDE PROFESSIONAL LE		LUKOIL AVANTGARDE PROFESSIONAL LS5		LUKOIL AVANTGARDE ULTRA PLUS	LUKOIL AVANTGARDE ULTRA		LUKOIL AVANTGARDE EXTRA
	Prod.-Nr.	568360	568375	568351	568363	568356	568357	568358	568380	568382	568359	568368	568345	568366	567820	568321	568320
SAE	5W-30	M6 10W-40	10W-40	M5 10W-40	10W-30	10W-40	15W-40	10W-30	15W-40	5W-30	10W-40	10W-30	10W-40	10W-40	15W-40	20W-50	15W-40
<b>ACEA</b>	E4/ E7	E4/ E7	E4/ E7	E4/ E7	E9	E9	E9	E9	E9	E4/ E6/ E7/ E9	E4/ E6/ E7/ E9	E6/ E7/ E9	E6/ E7	E7	E7	E7	–
<b>API</b>	CI-4	CI-4	CF	CI-4	CI-4/ SM/ SN	CI-4/ SM/ SN	CI-4/ SM/ SN	CK-4	CK-4	CI-4	CI-4	CI-4	CI-4	CI-4/ SL	CI-4/ SL	CI-4/ SL	CG-4/ CH-4/ SJ
<b>CAT</b>	ECF-2	ECF-2	–	–	ECF-1-a/ 2/ 3	ECF-1-a/ 2/ 3	ECF-3	ECF-1-a/ 2/ 3	ECF-1-a/ 2/ 3	ECF-3	ECF-3	–	–	ECF-1-a/ 2	ECF-1-a/ 2	–	–
<b>CUMMINS</b>	CES 20076/ 78	CES 20078	CES 20072	CES 20078	CES 20081	CES 20081	CES 20081	CES 20086	CES 20086	CES 20081	CES 20081	CES 20076/ 77	CES 20076/ 77	CES 20076/ 77/ 78	CES 20071/ 72/ 76/ 77/ 78	–	CES 20076
<b>DAF</b>	HP 1	HP 2	HP 2	–	–	–	–	–	–	–	–	DAF	DAF	–	DAF	–	–
<b>Detroit Diesel</b>	–	DDC 93K215	–	–	–	DDC 93K218	–	93K222	93K222	DFS 93K218	DDC 93K218	–	–	–	DFS 93K215	–	–
<b>DEUTZ</b>	DQC IV-10	DQC IV-10	DQC III-10	DQC III-10	DQC III-10 LA	DQC III-10 LA	DQC III-10 LA	–	–	DQC IV-10LA	DQC IV-10LA	DQC IV-10 LA	DQC III-10 LA	DQC III-10	DQC III-10	–	DQC III
<b>FORD</b>	–	–	–	–	–	–	–	M2C171-F1	M2C171-F1	–	–	–	–	–	–	–	–
<b>GLOBAL</b>	DHD-1	DHD-1	–	–	–	–	–	–	–	–	–	–	–	DHD-1	–	–	–
<b>IVECO</b>	–	–	18-1804 T3 E4	–	–	–	–	–	–	–	–	–	–	–	–	–	–
<b>JASO</b>	DH-1	–	–	–	–	–	–	–	–	–	–	DH-2	–	DH-2	–	–	–
<b>MACK</b>	EO-N EO-M Plus	EO-N	EO-N EO-M Plus	–	EO-O Premium Plus	EO-O Premium Plus	EO-O Premium Plus	EOS-4.5	EOS-4.5	EO-O Premium Plus	EO-O Premium Plus	EO-N	EO-N	EO-N EO-M Plus	EO-N EO-M Plus	–	EO-M
<b>MAN</b>	M 3277 M 3377	M 3277 M 3377	M 3277	M 3277	M 3575	M 3575	M 3575	–	–	M 3271-1/ M 3477 M 3575/ M 3677	M 3271-1 M 3477/ M 3577	M 3271-1 M 3477	M 3271-1 M 3477	M 3275-1	M 3275-1	–	271
<b>MB-Approval</b>	228.5	228.5	228.5	228.5	228.31	228.31	228.31	–	–	228.31/ 228.51	228.51/ 228.31	228.51	228.31/ 228.51	228.3	228.3	228.3	–
<b>MTU</b>	Oil Category 3	Oil Category 3	Oil Category 3	Oil Category 3	Oil Category 2.1	Oil Category 2.1	Oil Category 2.1	–	–	Oil Category 2.1 Oil Category 3.1	Oil Category 2.1 Oil Category 3.1	Oil Category 3.1	Oil Category 3.1	Oil Category 2	Oil Category 2	–	–
<b>RENAULT</b>	VI RLD-2/ VI RXD	VI RLD-2	VI RLD-2/ VI RXD	–	VI RLD-3	VI RLD-3	VI RLD-3	VI RLD-4	VI RLD-4	VI RLD-3	VI RLD-3	VI RLD-2	VI RLD-2/ VI RGD VI RXD	VI RLD/ RLD-2	VI RLD-2	–	VI RLD
<b>SCANIA</b>	LDF	–	LDF-3	–	–	–	–	–	–	LA/ LDF-4	LA	LA	–	–	–	–	–
<b>VOLVO</b>	VDS-3	VDS-3	VDS-3	–	VDS-4	VDS-4	VDS-4	VDS-4.5	VDS-4.5	VDS-4	VDS-4	VDS-3	VDS-3	VDS-3	VDS-3	–	VDS-2
<b>ZF TE-ML</b>	07D	–	04C	03A/ 05K 07D/ 21K	05K/ 07D 21K	04P/ 05K 07D/ 21K	04P/ 07D	–	–	07D	–	–	03A/ 05K 07D/ 21K	03A/ 05K 07D/ 21K	03A/ 04P 07D	–	03A/ 04P 07D

▼ Engine oils for commercial vehicles – for natural gas and LPG operation

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL AVANTGARDE CNG 10W-40</b> Prod. no.: 567711	LUKOIL AVANTGARDE CNG 10W-40 is a synthetic one multi-grade engine oil for commercial vehicle engines with LPG (Liquefied Petroleum Gas) or CNG (Compressed Natural gas).	96	14.2	857	ACEA E6/ E7, Cummins CES 20076/ 20077, DAF, Deutz DQC III-10 LA, Deutz DQC IV-10 LA, JASO DH-2, MB 228.31, Renault VI RGD/ VI RXD, ZF-TE-ML 03A/ 05K/ 07D/ 21K	API CI-4, Deutz DQC III-10, Mack EO-N, MAN M 3271-1/ M 3477, MB-Approval 228.51, MTU Oil Category 3.1, Renault VI RLD-2, VOLVO VDS-3

▼ Monograde engine oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL AVANTGARDE 10W</b> Prod. no.: 567510	LUKOIL AVANTGARDE oils are mineral monograde motor oils for a wide range of applications. They are suitable for utility vehicle engines, manual transmissions, retarders, torque converters, and hydraulic systems in agricultural and construction machinery. Also suitable for lubricating air compressors. Follow the manufacturer's instructions!	42	7.1	870.5	ACEA E2, API CF/ CF-2/ SF, MAN 270, MB 228.0, MTU Oil Category 1	LUKOIL AVANTGARDE 30: Thyssenkrupp
<b>LUKOIL AVANTGARDE 20W-20</b> Prod. no.: 567520		42	7.1	870.5	10W additionally: ZF-TE-ML 05K/ 21K	
<b>LUKOIL AVANTGARDE 30</b> Prod. no.: 567530		106	11.8	891.4	20W-20 additionally: ZF-TE-ML 03A/ 07D	
<b>LUKOIL AVANTGARDE 40</b> Prod. no.: 567542		160	15.3	896.2	30 additionally: ZF-TE-ML 03A/ 04A/ 04B/ 07D	
<b>LUKOIL AVANTGARDE 50</b> Prod. no.: 567550		218	18.5	900.3	40 additionally: ZF-TE-ML 04A/ 04B  50 additionally: ZF-TE-ML 04E	

▼ Special products automotive – Lawn mower oil

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL MOTO 4T GARDEN 30</b> Prod. no.: 568931	LUKOIL MOTO 4T GARDEN 30 is a mineral-oil based monograde motor oil designed especially for the lubrication of air- and water-cooled four stroke lawn mowers, garden tractors, rotary tillers, equipment haulers, and other engine-powered equipment for gardening and landscaping.	102	11.8	891	API SG, as well as the requirements of all manufacturers of air-cooled and water-cooled 4-stroke low-power motors.	

▼ Engine oils for 4-stroke motorcycles

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL MOTO 4T SYNTH 10W-50</b> Prod. no.: 563150	LUKOIL MOTO 4T SYNTH is a fully synthetic high-performance motor oil for four stroke motorcycles. Suitable for engines, transmissions, and wet clutches, including under extreme loads and temperatures. Meets the highest requirements of many motorcycle manufacturers from mopeds to professional racing bikes and go-carts.	133	19.4	850	API SL, JASO MA 2	
<b>LUKOIL MOTO 4T 20W-50</b> Prod. no.: 563151	LUKOIL MOTO 4T is a mineral-based multigrade oil for four stroke motorcycles according to the manufacturer's instructions. Suitable for engines, transmissions, and wet clutches.	159	17.6	890	API SL, JASO MA 2	

▼ Engine oils for 2-stroke engines

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL MOTO 2T SYNTH</b> Prod. no.: 563200	LUKOIL MOTO 2T SYNTH is a fully synthetic, biologically degradable motor oil for two stroke engines, from racing bikes to mopeds and extremely-high RPM lawn equipment. Also ideal for automatic clean oil lubrication systems.	78	12.3	903	API TC, ISO-L-EGD, JASO FD, PIAGGIO®, TISI	

# AUTOMOTIVE LUBRICANTS

## GEAR OILS

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▼ Automotive gear oils for passenger car gearbox transmissions

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL TRANSMISSION SLY 75W-90</b> Prod. no.: 583240	LUKOIL TRANSMISSION SLY 75W-90 is a synthetic gear oil for cars. It ensures smooth shifting even under cold winter conditions.	88	14.6	845	API GL-4+, VW 501 50	

▼ Automotive gear oils for commercial vehicle gearbox transmissions

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL TRANSMISSION SYNTH MPX 75W-80</b> Prod. no.: 583060	LUKOIL TRANSMISSION SYNTH MPX 75W-80 is a fully synthetic fuel economy gear oil designed especially for utility vehicles and for extremely long service intervals.	65	10.3	862	API GL-4, EATON Transmission, MAN 341 Typ E4, MB 235.29, Voith Class C	MAN 341 Typ VR, Voith Retarder, VOLVO 97307
<b>LUKOIL TRANSMISSION SYNTH MPV 75W-80</b> Prod. no.: 583100	LUKOIL TRANSMISSION SYNTH MPV 75W-80 is a fully synthetic fuel economy gear oil designed especially for utility vehicles and for extremely long service intervals.	75.3	11.7	863	API GL-4, EATON Transmission, Voith Class C, ZF-TE-ML 08	VOLVO 97307
<b>LUKOIL TRANSMISSION SYNTH MPX 75W-90</b> Prod. no.: 583070	LUKOIL TRANSMISSION SYNTH MPX 75W-90 is a fully synthetic fuel economy gear oil designed especially for utility vehicles and for extremely long service intervals.	98	14.2	848	API GL-4, MAN 341 Typ MB, MB 235.11, ZF-TE-ML 08	
<b>LUKOIL TRANSMISSION SYNTH MN Z5 75W-80</b> Prod. no.: 582010	LUKOIL TRANSMISSION SYNTH MN Z5 75W-80 was for use in highly stressed manual and automated manual transmissions developed under work in the heaviest operating conditions.	54	9.35	858	API GL-4, MAN 341 Typ Z5, MB 235.28, Voith Class C, VOLVO 97307, ZF-TE-ML 01E/ 02E/ 16P	

▼ Automotive gear oils for commercial vehicle gearbox transmissions

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL TRANSMISSION LDI 75W-80</b> Prod. no.: 583620	LUKOIL TRANSMISSION LDI 75W-80 is a synthetic fuel economy gear oil designed especially for utility vehicles and for extremely long service intervals.	66	9.5	862	API GL-4, DAF, IVECO, Renault, VOLVO 97305, Voith Class C, ZF-TE-ML 01L/ 02D/ 07A/ 08	MAN 341 Typ Z4, ZF-TE-ML 02L/ 16K
<b>LUKOIL TRANSMISSION MP 80W-85</b> Prod. no.: 583010	LUKOIL TRANSMISSION MP are mineral gear oils with extreme pressure properties, designed primarily for manual transmissions.	107	11.7	889	API GL-4, ZF-TE-ML 08/ 16A/ 17A/ 19A	MB-Approval 235.1
<b>LUKOIL TRANSMISSION MP 85W-90</b> Prod. no.: 583020		148	14.4	894	SAE 85W-90 additionally: MIL-L-2105	SAE 85W-90 additionally: ZF-TE-ML 16A/ 17A/ 19A

▼ Automotive commercial vehicle axle transmission oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL TRANSMISSION SYNTH BSX 75W-90</b> Prod. no.: 583270	LUKOIL TRANSMISSION SYNTH BSX 75W-90 is a fully synthetic fuel economy differential oil designed primarily for heavy duty utility vehicles and for extremely long service intervals.	115	16.8	868	API GL-5, MIL-PRF-2105E, ZF-TE-ML 02B/ 05B/ 07A/ 08/ 12L/ 12N/ 16F/ 17B/ 19C/ 21B	MAN 341 Typ Z2/ 342 Typ S1, MB-Approval 235.8, Scania STO 1:0, VOLVO 97312,
<b>LUKOIL TRANSMISSION SYNTH BSV 75W-90</b> Prod. no.: 583275	LUKOIL TRANSMISSION SYNTH BSV 75W-90 is a synthetic fuel economy differential oil designed primarily for Volvo heavy duty utility vehicles and for extremely long service intervals.	110	15.8	872	API GL-5, DAF, Meritor Europe – Extended Drain Meritor 076-Q, SAE J 2360, ZF-TE-ML 05A/ 12N/ 16F/ 17B/ 19C/ 21A	MAN 342 Typ M2 Scania STO 1:0, VOLVO 97312

▼ Automotive commercial vehicle axle transmission oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL TRANSMISSION LD 80W-90</b> Prod. no.: 583630	LUKOIL TRANSMISSION LD 80W-90 is a mineral differential oil, mainly for commercial vehicles was developed and offers high load carrying capacity, better thermal stability and allows longer oil change intervals.	144.8	14.6	898	API GL-5/ MT-1, MAN 341 Typ GA1, MIL-PRF-2105E, SAE J2360, Scania STO 1:0, ZF-TE-ML 05A/ 07A/ 12L/ 12M/ 16B/ 17B/ 19B/ 21A	MAN 342 Typ M3, MB-Approval 235.20
<b>LUKOIL TRANSMISSION B 80W-90</b> Prod. no.: 583220	LUKOIL TRANSMISSION B 80W-90 is a mineral differential oil designed primarily for utility vehicles and standard service intervals.	147	14.5	893	API GL-5, MAN 342 Typ M1, MB 235.0, MIL-L-2105D VOITH 3.325-339, VOLVO 97310, ZF-TE-ML 07A/ 08/ 16B/ 17B/ 19B/ 21A	
<b>LUKOIL TRANSMISSION B 85W-90</b> Prod. no.: 583210	LUKOIL TRANSMISSION B 85W-90 is a mineral differential oil designed primarily for utility vehicles and standard service intervals.	148	14.3	898	API GL-5, FENDT, Ford M2C-94A, NH 520, STEYR G, TATRA TDS 80/32, VOITH VSN 6086/19/20, ZF-TE-ML 07/ 08	MB-Approval 235.0, ZF-TE-ML 16C/ 17B/ 19B/ 21A
<b>LUKOIL TRANSMISSION B 80W-140</b> Prod. no.: 583221  <b>LUKOIL TRANSMISSION B 85W-140</b> Prod. no.: 583222	LUKOIL TRANSMISSION B are mineral gear oils for differentials according to the manufacturer's instructions. Recommended for transmissions and differentials of older SCANIA lorries.	258  375	25.4  26.8	875  910	API GL-5, VOLVO 97310, ZF-TE-ML 07A/ 08  SAE 85W-90 additionally: NH 524A	
<b>LUKOIL TRANSMISSION LS 80W-90</b> Prod. no.: 582515	LUKOIL TRANSMISSION LS 85W-90 is a gear oil with special additives for use in limited slip differentials according to the manufacturer's instructions.	148.5	14.9	902	API GL-5, ZF-TE-ML 16E	ZF-TE-ML 05C/12C/ 21C

▼ Automotive commercial vehicle axle transmission oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL TRANSMISSION LS 85W-90</b> Prod. no.: 582520	LUKOIL TRANSMISSION LS 85W-90 is a gear oil with special additives for use in limited slip differentials according to the manufacturer's instructions.	144	13.8	903	API GL-5, ZF-TE-ML 07A/ 08/ 16E	ZF-TE-ML 05C/12C/ 21C

▼ Automotive gear oils for gearbox and axle transmissions

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL TRANSMISSION UNI S 75W-90</b> Prod. no.: 583520	LUKOIL TRANSMISSION UNI S 75W-90 is a fully synthetic high-performance fuel economy universal gear oil for transmissions and differentials according to the manufacturer's instructions.	89	14.4	860	API GL-4/ GL-5/ MT-1, MAN 341 Typ E2/ Typ E3, MAN 342 Typ M3, MB 235.0/ 235.8, MIL-PRF-2105E, SAE J2360, Scania STO 1:0, ZF-TE-ML 07A/ 08/ 12B	MAN 341 Typ Z2, MAN 342 Typ S1, ZF-TE-ML 02B/ 05B/ 12L/ 12N/ 16F/ 17B/ 19C/ 21A
<b>LUKOIL TRANSMISSION UNI S 75W-140</b> Prod. no.: 583535	LUKOIL TRANSMISSION UNI S 75W-140 is a fully synthetic high-performance universal gear oil for transmissions and differentials according to the manufacturer's instructions. Recommended for transmissions and differentials in Scania lorries.	142	24.2	883	API GL-5/ MT-1, SAE J2360, Scania STO 1:0, VOLVO 97310, ZF-TE-ML 05A/ 07A/ 08/ 12B/ 16F/ 21A	
<b>LUKOIL TRANSMISSION UNI 80W-90</b> Prod. no.: 583510	LUKOIL TRANSMISSION UNI 80W-90 is a mineral high-performance universal gear oil for transmissions and differentials according to the manufacturer's instructions.	159	15.6	898	API GL-4/ GL-5, API MT-1, ARVIN MERITOR 0-76-D, MAN 341 Typ E2, MB 235.0, MIL-PRF-2105E, Scania STO 1:0, SAE J2360, ZF-TE-ML 05B/ 07A/ 08/ 16C/ 19C/ 21B	MAN 341 Typ Z2, MAN 342 Typ M2 ZF-TE-ML 02B/ 05A/ 12L/ 12M/ 16B/ 17H/ 19B/ 21A

▼ Fluids for automatic transmissions

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL ATF SYNTH</b> Prod. no.: 583321	LUKOIL ATF SYNTH is a fully synthetic, red-colored high performance transmission fluid. The extremely cheap viscosity temperature behavior ensures the highest switching precision over wide temperature ranges. Suitable for modern automatic transmissions such as Mercedes 5-speed and VW Tiptronic.	34	7.2	840	<b>Allison</b> C-4, <b>DIN</b> 51 524 HVLP, <b>Ford</b> MERCON, <b>GM</b> DEXRON® II-E, <b>NATO</b> Code H-548, <b>VOLVO</b> 97335, <b>ZF-TE-ML</b> 11A/ 21L	<b>MAN</b> 339 Typ L1/ V2/ Z2, <b>MB-Approval</b> 236.8, <b>RBAS</b> Lubricant Class TE-ML 09X, <b>VOITH</b> H55.6336.XX, <b>ZF-TE-ML</b> 04D/ 14B/ 16L
<b>LUKOIL ATF SYNTH MN Z3</b> Prod. no.: 583335	LUKOIL ATF SYNTH MN Z3 is a high quality universal automatic transmission fluid that was designed for utility vehicles and cars. It has a low viscosity temperature dependence (high viscosity index) and excellent ageing characteristics.	36	7.6	838	<b>Allison</b> C-4/ TES-389/ TES-295, <b>Ford</b> MERCON/ MERCON V, <b>GM</b> DEXRON® II-D/ III-G/ III-H, <b>JASO</b> 1-A, <b>MAN</b> 339 Typ L1, <b>MB</b> 236.6, <b>RBAS</b> TE-ML 09, <b>VOLVO</b> 97341, <b>ZF-TE-ML</b> 11A/ 11B/ 16L/ 21L	<b>MAN</b> 339 Typ V2/ Z12/ Z3, <b>VOITH</b> H55.6336.XX, <b>ZF-TE-ML</b> 04D/ 14C/ 16S/ 16M/ 20C
<b>LUKOIL ATF SYNTH M15</b> Prod. no.: 583325	LUKOIL ATF SYNTH M15 is an automatic transmission fluid for the service filling of Mercedes seven-speed automatic transmissions.	18	4.3	840		<b>MB-Approval</b> 236.15
<b>LUKOIL ATF SYNTH M14</b> Prod. no.: 583326	LUKOIL ATF SYNTH M14 is a synthetic, red dyed transmission fluid and is prescribed especially for use in the newest seven-speed automatic transmissions (NAG 2, type 722.9) in Mercedes Benz vehicles. LUKOIL ATF M plus is backwards compatible with all five-speed automatic transmissions (type 722.6) and is ideal for older automatic transmissions with deteriorating shifting quality.	26.9	6.5	850	<b>MB</b> 236.10/ 236.11/ 236.12, <b>ZF-TE-ML</b> 11A/ 11B	<b>MB-Approval</b> 236.14
<b>LUKOIL ATF SYNTH MULTI</b> Prod. no.: 583340	LUKOIL ATF SYNTH MULTI is a high quality universal automatic transmission fluid for cars and utility vehicles. It has a low viscosity temperature dependence (high viscosity index) and excellent ageing characteristics.	36.8	7.5	850	<b>Allison</b> C-4/ TES-295/ TES-389, <b>Ford</b> MERCON/ MERCON V, <b>GM</b> DEXRON® III-H, <b>JASO</b> 1-A, <b>VOLVO</b> 97340	<b>MAN</b> 339 Typ L1/ V2/ Z11/ Z2 <b>MB-Approval</b> 236.6, <b>VOITH</b> H55.6336.XX, <b>VOLVO</b> 97341, <b>ZF-TE-ML</b> 04D/ 14B/ 16L/ 16S/ 20B



▼ Fluids for automatic transmissions

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL ATF SYNTH CVT</b> Prod. no.: 583345	LUKOIL ATF SYNTH CVT is a high quality automatic transmission fluid for continuously variable car transmissions. It has outstanding anti-foaming properties and does not attack seals. Improved anti-corrosion properties reliably protect all system components.	33.4	8.0	851	Daihatsu CVTF DC/ DFE, Dodge/Jeep CVTF +4,/ NS-2, Ford CVT 23/ 30, Ford MERCON C, GM CVT, Honda HFC-2/ HMMF, Hyundai/Kia SP-III, Hyundai Genuine CVTF, MB 236.20, MINI ELZ 799, Mitsubishi CVTF-Diaqueen J1/ J4/ SP-III, Nissan NS-2/ NS-3 Punch Powertrain CVTF EX-1/ CVT-PPT/ EZL799A, Subaru CVTF/ NS-2, Suzuki CVT Green 1/ 2, Suzuki NS-2/ TC Toyota TC, VW/Audi G 052 180, VW/Audi G 052 516	

▼ Fluids for automatic transmissions

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL ATF SYNTH VI</b> Prod. no.: 583346	LUKOIL ATF SYNTH VI is a high quality automatic transmission fluid for cars and light utility vehicles. It has low viscosity temperature dependence and excellent protection against sediment formation. This fluid does not attack seals. Improved anti-corrosion properties reliably protect all system components.	30	5.9	849	Bentley PY112995PA, BMW/MINI 83 22 0 142 516/ 83 22 0 163 514/ 83 22 0 397 114/ 83 22 2152 426, Chrysler 05127382AA/ 68043742AA/ 68157995AA, Ford XT-10-QLV/ XT-6-DSP/ XT-6-QSP, GM 88863400/ 88863401, GM AW1, Honda DW-1, Hyundai/Kia NWS-9638 T-5, Hyundai/Kia P/N 040000C90SG, Hyundai/Kia SPH-IV/ SP-IV, Jaguar Fluid 8432, JASO M315 1A, Land Rover LR0022460/ TYK500050, Maserati 231603, Mazda FZ, MB 236.12/ 236.14/ 236.15/ 236.41, Mitsubishi ATF-J3, Nissan Matic S, Porsche 000 043 304 00, Saab 93 165 147-AW-1, Toyota Type WS, VW/Audi G 052 533, VW/Audi G 055 005 (-A; A2), VW/Audi G 055 162 (A2/A6), VW/Audi G 055 540 (A2), VW/Audi G 060 162 A1/A2/A6	GM DEXRON® VI
<b>LUKOIL ATF</b> Prod. no.: 583315	LUKOIL ATF is a universally applicable semi-synthetic automatic gear oil, which is suitable for use in both passenger cars and trucks was developed.	36.7	7.4	862	Allison C-4, Caterpillar TO-2, GM DEXRON® II-D/ III-G, MAN 339 Typ D/ F, MB 236.1, RBAS TE-ML 09, VOLVO 97340/ 97341, ZF-TE-ML 11A/ 11B/ 17C	MAN 339 Typ L1/ V1/ Z1, VOITH H55.6335.XX, ZF-TE-ML 04D/ 14A



# AUTOMOTIVE LUBRICANTS

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▼ Universal oils for construction machinery

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL CONSTRUCT TO-4 10W</b> Prod. no.: 583540	LUKOIL CONSTRUCT TO-4 are special oils for construction machinery for use in engines, powershift and manual transmissions, lateral drive systems, drive axles, winches, hydraulic systems, and hydrostatic drives according to the manufacturer's instructions.	40	6.2	883	SAE 10W: <b>ALLISON C-4,</b> <b>API CF/CF-2 and GL-4,</b> <b>Caterpillar TO-4,</b> <b>KOMATSU-DRESSER,</b> <b>ZF-TE-ML 03C</b> consists <b>Eaton Vickers 35VQ25</b> Vamp pump test  SAE 30W: <b>ALLISON C-4,</b> <b>API CF/CF-2 and GL-4,</b> <b>Caterpillar TO-4,</b> <b>KOMATSU-DRESSER,</b> <b>ZF-TE-ML 03A/ 03C/ 04A/ 07D/ 07F</b>  SAE 50W: <b>API CF/CF-2 and GL-4,</b> <b>Caterpillar TO-4,</b> <b>KOMATSU-DRESSER</b>	
<b>LUKOIL CONSTRUCT TO-4 30</b> Prod. no.: 583550		94	10.7	890		
<b>LUKOIL CONSTRUCT TO-4 50</b> Prod. no.: 583555		223	18.7	902		



▼ Universal oils for tractors – STOU

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL VERSO MOTOR 10W-40</b> Prod. no.: 568240	LUKOIL VERSO MOTOR is a high quality super tractor universal oil (STOU) for year-round use in engines, hydraulic systems, and transmissions with wet brakes in agricultural and construction machinery.	85	13.1	864	ACEA E2, Allison C-4, API CF-4/ CG-4/ GL-4/ SF, Caterpillar TO-2, CMS M1145, Ford M2C 159-B/ 159-C, John Deere J27, Massey Ferguson M1139/ M1144, MB 227.1/ 228.1, ZF-TE-ML 06A/ 06C/ 06Q/ 06R	ZF-TE-ML 06B/ 06F/ 07B
<b>LUKOIL VERSO MOTOR 15W-40</b> Prod. no.: 568230	LUKOIL VERSO MOTOR is a high quality super tractor universal oil (STOU) for year-round use in engines, hydraulic systems, and transmissions with wet brakes in agricultural and construction machinery. This product is characterized by its high resistance.	101	13.75	887	ACEA E2, Allison C-4, API CF-4/ SF/ GL-4 CMS M1145 Caterpillar TO-2, Ford M2C 159-B, John Deere JDM J27, Massey Ferguson M1139/ M1144/ M1145, MB 228.1, MIL-L-2104D, ZF-TE-ML 06B/ 06F/ 07B	

▼ Universal oils for tractors – STOU's

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<p><b>LUKOIL VERSO MOTOR 15W-30</b> Prod. no.: 568225</p>	<p>LUKOIL VERSO MOTOR is a high quality super tractor universal oil (STOU) for year-round use in engines, hydraulic systems, and transmissions with wet brakes in agricultural and construction machinery.</p>	82	10.9	870	<p>ACEA E2, Allison C-4, API CF-4/ GL-4/ SF, Case NEW HOLLAND CNH MAT3525, Case Steyr NEW HOLLAND CVX/ CVT/TVT, Caterpillar TO-2, DEUTZ-FAHR, FENDT, Ford M2C 159-B/ 159-C, John Deere JDM J27, LINDNER Geotrac Serie 4, MB 228.1, Massey Ferguson M1139/ M1144/ M1145, MIL-L-2104D, NEW HOLLAND 324G STEYR 9000, VALTRA, ZF S-MATIC</p>	

▼ Universal oils for tractors – UTTOs

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level	Approvals
<b>LUKOIL VERSO HGN</b> Prod. no.: 583410	LUKOIL VERSO HGN is a universal oil for construction machinery and tractors with combined lubricating systems for hydraulics, transmissions, and wet brakes (UTTO). Viscosity SAE 15W-30 or SAE 80W.	69	10.5	886	API GL-4, Case <b>NEW HOLLAND</b> CNH MAT3525, CMS M1135, DIN 51502-HVLPD, Ford ESN-M2C86-B	
<b>LUKOIL VERSO LVX</b> Prod. no.: 583420	LUKOIL VERSO LVX is a universal oil for construction machinery and tractors with combined lubricating systems for hydraulics, transmissions, and wet brakes (UTTO). Viscosity SAE 10W-30 or SAE 75W-80.	57.1	9.5	885	Allison C-4, API GL-4, Case MS 1207/ MS 1210, Caterpillar TO-2, CMS M1135/ M1141/ M1143/ M1145/ NH 410 B, CNH MAT3505/ MAT3509/ MAT3525, Ford ESN-M2C134-D/ ESN-M2C86-C/ ESN-M2C86-B, Ford <b>NEW HOLLAND</b> FNHA-2-C-200.00/ 201.00, John Deere JDM J20C/D, KUBOTA UDT, LANDINI MACROS/C, Valtra G2-08, VOLVO VCE WB 101 (97303), ZF-TE-ML 06K	ZF-TE-ML 03E/ 05F/ 17E/ 21F
<b>LUKOIL VERSO STE</b> Prod. no.: 583440	LUKOIL VERSO STE is a specially developed universal oil for hydraulics and wet brakes for Kalmar forklifts. Viscosity class ISO-VG 46 or SAE 20.	48	8.2	883	API GL-4	
<b>LUKOIL VERSO NPS</b> Prod. no.: 583450	LUKOIL VERSO NPS is a universal oil for construction machinery and tractors with combined lubricating systems for hydraulics, transmissions, and wet brakes. The product was developed especially to optimise the noise behaviour of problematic wet brakes.	63	9.7	885	API GL-4	

# AUTOMOTIVE LUBRICANTS

## SPECIAL PRODUCTS

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▼ Special products automotive – radiator anti-freeze

Product name	Description, Guidelines for use	Frost protection table			Meets Requirements Quality Level	Approvals
		Parts anti-freeze	Parts water	Frost resistant to		
<b>LUKOIL COOLANT SOT</b> Prod. no.: 578120	LUKOIL COOLANT SOT is a red/violet nitrite-, amine-, and phosphate-free ethylene glycol engine coolant concentrate for modern engines, especially fully aluminium engines. It should not be mixed with other coolants and must be diluted with water to a concentration of 60% or less.	1 1 1	2 1.5 1	-20° C -27° C -40° C	<b>AS</b> 2108-2004, <b>ASTM D</b> 3306/ 4985, <b>BS</b> 6580, <b>China GB</b> 29743-2013, <b>Cummins CES</b> 14603, <b>CUNA NS</b> 956-16, <b>Deutz DQC</b> CC-14, <b>Irizar</b> (FROM 2016), <b>JIS K</b> 2234:2006, <b>Liebher Minimum</b> LH-01-COL3A, <b>MB</b> 326.0, <b>ONORM V</b> 5123, <b>Porsche</b> , <b>SAE</b> J1034, <b>SANS</b> 1251:2005	<b>MAN</b> 324 Typ SI-OAT, <b>MB-Approval</b> 325.5/ 325.6, <b>MTU</b> MTL 5048, <b>VW</b> TL 774-G
<b>LUKOIL COOLANT SF</b> Prod. no.: 578116	LUKOIL COOLANT SF is a violet nitrite- and silicate-free ethylene glycol engine coolant concentrate for modern engines, especially fully aluminium engines. It should not be mixed with other coolants and must be diluted with water to a concentration of 60% or less.	1 1 1	2 1.5 1	-20° C -27° C -40° C	<b>AFNOR</b> 15-601, <b>AS</b> 2108-2004, <b>ASTM D</b> 3306/ 4985, <b>BS</b> 6580, <b>China GB</b> 29743-2013, <b>CUNA NS</b> 956-16, <b>DAF</b> MAT74002, <b>Deutz DQC</b> CB-14, <b>Ferrari</b> from 2010, <b>JIS K</b> 2234:2006, <b>MINI Cooper D</b> (2007-2010), <b>ONORM V</b> 5123, <b>Porsche</b> (1996-2010), <b>SAE</b> J1034, <b>SANS</b> 1251:2005, <b>Scania</b> TI 02-98 0813 T/B/M	<b>MAN</b> 324 Typ SNF, <b>MB-Approval</b> 325.3, <b>MTU</b> MTL 5048, <b>VW</b> TL 774-D/ 774-F



▼ Special products automotive – radiator anti-freeze

Product name	Description, Guidelines for use	Frost protection table			Meets Requirements Quality Level	Approvals
		Parts anti-freeze	Parts water	Frost resistant to		
<b>LUKOIL COOLANT PLUS</b> Prod. no.: 578107	LUKOIL COOLANT PLUS is a green-blue, nitrite-free ethylene glycol engine coolant. It is suitable for a wide range of engine types, including with light alloy components. It should not be mixed with other coolants and must be diluted with water to a concentration of 60% or less.	1	2	-20°C	<b>AFNOR</b> 15-601, <b>AS</b> 2108-2004, <b>ASTM D</b> 3306/ 4985, <b>BS</b> 6580, <b>China</b> GB 29743-2013, <b>CUNA</b> NS 956-16, <b>Deutz</b> DQC CA-14, <b>Fiat</b> 9.55523, <b>GE-Jenbacher</b> TA 1000-0201, <b>IVECO</b> 18-1830, <b>JIS K</b> 2234:2006, <b>Liebher Minimum</b> LH-00-COL3A, <b>MAN</b> 324 NF Pritarder, <b>MAN Diesel &amp; Turbo</b> , <b>MAN Diesel &amp; Turbo</b> Liste 3.3.7, <b>ONORM</b> V 5123, <b>Opel GM B</b> 040 0240, <b>Opel GM QL</b> 130 100, <b>PN-C</b> -40007, <b>Porsche</b> , <b>Saab</b> 6901 599, <b>SAE</b> J1034, <b>SANS</b> 1251:2005, <b>Tesla</b> , <b>TL</b> 6850-0038/1, <b>Van Hool</b> , <b>VOLVO</b> 128 6083/ Truck, <b>VW (G 11)</b> , <b>Zastava</b>	<b>BMW</b> GS 94000 <b>(BMW N 600 69.0)</b> , <b>MAN</b> 324 Typ NF, <b>MB-Approval</b> 325.0, <b>MTU</b> MTL 5048, <b>VW</b> TL 774-C
		1	1.5	-27°C		
		1	1	-40°C		

▼ Coolant recommendation table passenger cars

Brand	Model	Year of construction		LUKOIL COOLANT
		from	to	
Alfa Romeo	all models	1976	2005	LUKOIL COOLANT PLUS
	all models	2005		LUKOIL COOLANT SF
Audi	all models	1981	1996	LUKOIL COOLANT PLUS
	all models	1996	2008	LUKOIL COOLANT SF
	all models	2008		LUKOIL COOLANT SOT
Bentley	all models	1980	2005	LUKOIL COOLANT PLUS
	all models	2005	2008	LUKOIL COOLANT SF
	all models	2008		LUKOIL COOLANT SOT
BMW	all models	1975		LUKOIL COOLANT PLUS
Chevrolet	all models	2001		LUKOIL COOLANT SF
Chrysler	all models	1985	2007	LUKOIL COOLANT PLUS
	all models	2008		LUKOIL COOLANT SF
Citroën	all models	1993		LUKOIL COOLANT SF
Dacia	all models	2005		LUKOIL COOLANT SF
Daihatsu	all models	1979		LUKOIL COOLANT SF
Dodge	all models	1985		LUKOIL COOLANT PLUS
Ferrari	all models	1979	2005	LUKOIL COOLANT PLUS
	all models	2005		LUKOIL COOLANT SF
Fiat	all models	1982	2005	LUKOIL COOLANT PLUS
	all models	2005		LUKOIL COOLANT SF
Ford	all models		1997	LUKOIL COOLANT PLUS
	all models	1998		LUKOIL COOLANT SF
Honda	all models	1983		LUKOIL COOLANT SF
Hyundai	all models	1982		LUKOIL COOLANT SF
Jaguar	all models	1986	1999	LUKOIL COOLANT PLUS
	all models	1999		LUKOIL COOLANT SF
Jeep	all models			LUKOIL COOLANT PLUS
KIA	all models	1991		LUKOIL COOLANT SF
Lada	all models			LUKOIL COOLANT PLUS
Lancia	all models	1976	2005	LUKOIL COOLANT PLUS
	all models	2005		LUKOIL COOLANT SF
Land Rover	Freelander, Discovery, Defender, Range Rover	1998		LUKOIL COOLANT SF
	Range Rover V8 and Diesel	1998	2005	LUKOIL COOLANT PLUS
Lexus	all models	1994		LUKOIL COOLANT SF
Lotus	all models	1980	1999	LUKOIL COOLANT PLUS
	all models	2000		LUKOIL COOLANT SF
Mazda	all models	1977		LUKOIL COOLANT SF

Brand	Model	Year of construction		LUKOIL COOLANT
		from	to	
Mahindra	all models			LUKOIL COOLANT PLUS
Mercedes	all models	1976	2014	LUKOIL COOLANT PLUS
	all models	2014		LUKOIL COOLANT SOT
	Sprinter DIESEL			LUKOIL COOLANT SF
MG Rover	all models	1982		LUKOIL COOLANT SF
MINI	Gasoline engine	2001		LUKOIL COOLANT PLUS
	Diesel engine	2007		LUKOIL COOLANT SF
Mitsubishi	all models	1982		LUKOIL COOLANT SF
	Carisma	1996	2004	LUKOIL COOLANT PLUS
	Colt	2004	2007	LUKOIL COOLANT PLUS
Morgan	all models			LUKOIL COOLANT PLUS
Nissan	all models	1982		LUKOIL COOLANT SF
Opel	all models	1975	2000	LUKOIL COOLANT PLUS
	all models	2001		LUKOIL COOLANT SF
Peugeot	all models	1993		LUKOIL COOLANT SF
Porsche	all models (except 911)		1995	LUKOIL COOLANT PLUS
	all models	1996		LUKOIL COOLANT SF
	911, Boxster, Cayman, Cayenne, Panamera	1997		LUKOIL COOLANT SOT
Renault	all models	1985		LUKOIL COOLANT SF
Rolls-Royce	all models	1998		LUKOIL COOLANT PLUS
Saab	all models	1975	2000	LUKOIL COOLANT PLUS
	all models	2001		LUKOIL COOLANT SF
Seat	all models	1985	1996	LUKOIL COOLANT PLUS
	all models	1997	2007	LUKOIL COOLANT SF
	all models	2008		LUKOIL COOLANT SOT
Skoda	all models	1989	1998	LUKOIL COOLANT PLUS
	all models	1998	2008	LUKOIL COOLANT SF
	all models	2008		LUKOIL COOLANT SOT
Smart	all models	1998		LUKOIL COOLANT PLUS
Subaru	all models	1977		LUKOIL COOLANT SF
Suzuki	all models	1981		LUKOIL COOLANT SF
Tesla	all models	2013		LUKOIL COOLANT PLUS
Toyota	all models	1978		LUKOIL COOLANT SF
Volkswagen	all models	1975	1996	LUKOIL COOLANT PLUS
	all models	1997	2008	LUKOIL COOLANT SF
	all models	2008		LUKOIL COOLANT SOT
Volvo	all models	1982		LUKOIL COOLANT PLUS

▼ Coolant recommendation table trucks

Brand	Country	Year of construction		LUKOIL COOLANT
		from	to	
Avia Trucks	UK			LUKOIL COOLANT PLUS
Cummins				LUKOIL COOLANT SOT
Daewoo	KR			LUKOIL COOLANT SF
DAF	NL			LUKOIL COOLANT SF
Freightliner	US			LUKOIL COOLANT PLUS
GMC	US			LUKOIL COOLANT PLUS
Iveco	D			LUKOIL COOLANT PLUS
Kenworth	US			LUKOIL COOLANT PLUS
LIAZ	CZ			LUKOIL COOLANT PLUS
Mack	US			LUKOIL COOLANT PLUS
MAN	D		11.2011	LUKOIL COOLANT PLUS
		12.2011		LUKOIL COOLANT SOT
Mercedes-Benz	D		09.2011	LUKOIL COOLANT PLUS
		10.2011		LUKOIL COOLANT SOT
Mitsubishi Fuso	JP			LUKOIL COOLANT SF
Nissan	JP			LUKOIL COOLANT SF
Pegaso	E			LUKOIL COOLANT PLUS
Peterbilt	US			LUKOIL COOLANT PLUS
Renault	F			LUKOIL COOLANT SF
Sisu	FIN			LUKOIL COOLANT PLUS
Tatra	F			LUKOIL COOLANT PLUS
Ural	RUS			LUKOIL COOLANT PLUS
Volvo	S		2005	LUKOIL COOLANT PLUS
		2006		LUKOIL COOLANT SF

▼ Coolant recommendation table engines

Brand	Country	Year of construction		LUKOIL COOLANT
		from	to	
Cummins	US			LUKOIL COOLANT SOT
DAF	NL			LUKOIL COOLANT SF
Deutz	D			LUKOIL COOLANT PLUS
MAN	D		11.2011	LUKOIL COOLANT PLUS
		12.2011		LUKOIL COOLANT SOT
Mercedes-Benz	D		09.2011	LUKOIL COOLANT PLUS
		10.2011		LUKOIL COOLANT SOT
MTU	D	Series specifically		LUKOIL COOLANT PLUS
MTU	D	Series specifically		LUKOIL COOLANT SF
Perkins	UK			LUKOIL COOLANT PLUS

▼ Coolant recommendation table construction machinery

Brand	Country	Year of construction		LUKOIL COOLANT
		from	to	
ATLAS	D			LUKOIL COOLANT PLUS
Demag	D			LUKOIL COOLANT PLUS
Gottwald	D			LUKOIL COOLANT PLUS
Grove	US, D, IT			LUKOIL COOLANT PLUS
Hiab	AT			LUKOIL COOLANT PLUS
Liebherr	CH			LUKOIL COOLANT PLUS

▼ Coolant recommendation table tractors

Brand	Country	Year of construction		LUKOIL COOLANT
		from	to	
CNH	NL		12.2013	LUKOIL COOLANT PLUS
		01.2014		LUKOIL COOLANT SF
Fendt	D			LUKOIL COOLANT PLUS
John Deere	US			LUKOIL COOLANT PLUS
Jonsered	AT			LUKOIL COOLANT PLUS

# LUBRICANTS

## ÖSTERREICHISCHE QUALITÄT – TECHNISCHE INFORMATIONEN Page

LUKOIL Lubes Blending Plant in Vienna, Austria 50-53

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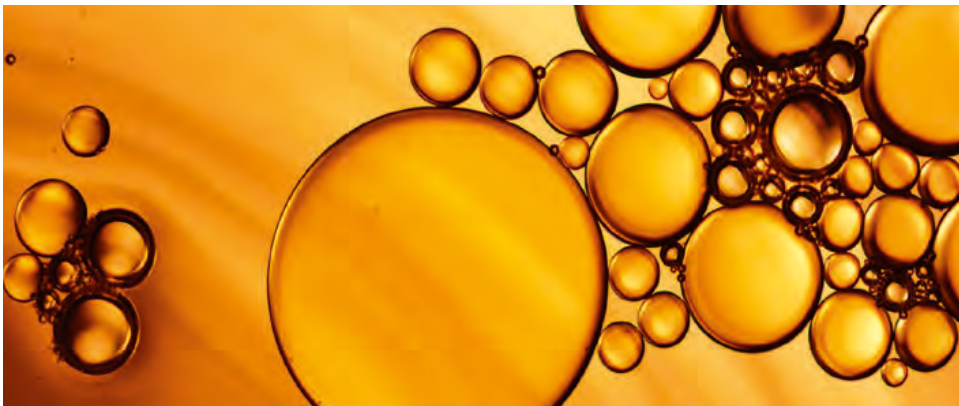
LUKOIL





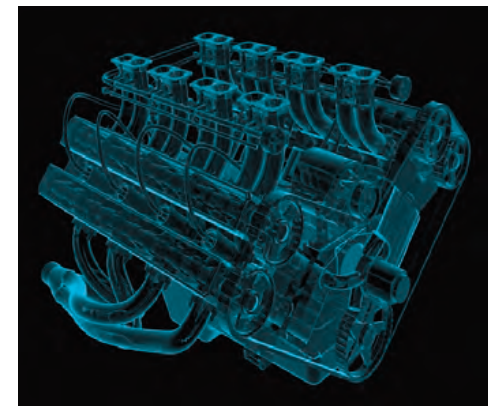


**LUKOIL LUBRICANTS FACILITATE RELIABLE MOBILITY FOR MILLIONS OF PEOPLE WORLDWIDE AND PROVE THEIR SUPERIORITY IN ALL AREAS OF APPLICATION.**



Regular laboratory checks and a competent R&D center allow for continuous product optimization.

No idle time: that also goes for the company. Stable growth, secure resources and steady improvement of products and processes are the essentials in a highly volatile market. Therefore Lukoil has made its goal to reach the very top of the line in the most sophi-



Modern engines deliver high performance but demand highest quality lubricants – like LUKOIL GENESIS.

Lubricants are among the most important technical components of our daily life – but they are hardly ever noticed. And that is the way it is meant to be, because only high-quality products with superior service life ensure frictionless advances in the dynamic world of today. Lukoil Lubricants takes its responsibility as a leading producer of reliable lubricants very seriously.

As a supplier for commercial and industrial companies, LUKOIL facilitates reliable operation in haulage as well as on vessels and in agricultural machinery.

LUKOIL therefore contributes its part to ensure that today's highly complex logistics networks never come to a halt – a scenario which would be unimaginable for today's society.



Lukoil Lubricants perform excellent under all circumstances, even in heavy-duty industrial application.

sticated segment – fully synthetic high-performance motor oils for modern engines. With the development of LUKOIL GENESIS this goal has most impressively been achieved – but we still strive for more.



## LUKOIL GENESIS MOTOR OIL

LUKOIL'S PREMIUM MOTOR OIL IS PREPARING TO CONQUER THE EUROPEAN MARKET FROM VIENNA – IN TERMS OF QUALITY AS WELL AS SUSTAINABLE BUSINESS.

BY CHOOSING AUSTRIA AS IMPORTANT LOCATION FOR FUTURE BUSINESS, LUKOIL SENDS A CLEAR SIGNAL FOR INVESTING IN THE EUROPEAN MARKET: **HIGHEST QUALITY AND SECURE JOBS**



By expanding the production site in Vienna and the associated quality control, LUKOIL sends a clear signal, confirming the quality claim of LUKOIL GENESIS.

Austria's nearly proverbial technology reputation makes sure that a product that fulfills the high local criteria in quality, ecology and ethics can do so in the rest of Europe.



Optimized processes and clean operations guarantee highest purity and quality in the final product. The modern and fully automatic filling plant has sufficient capacity for the European market.

LUKOIL is aiming to make LUKOIL GENESIS available in retail shops, service stations, car repair and gas stations in the very near future.



As a fully synthetic motor oil, LUKOIL GENESIS fulfills all the requirements of modern gasoline and diesel engines. Especially when it comes to achieving more performance, better fuel efficiency and full-

Vienna's importance as international trade and production hub is increasing continuously.

fillment of strict ecological criteria, the right choice of motor oil is crucial. Not only when it comes to OEM – and specifically middle-class and luxury vehicles – but also during service and maintenance.



## TRADITION MEETS PROGRESS

LUKOIL LUBRICANTS IS A 100% SUBSIDIARY OF LUKOIL, RUSSIA'S LARGEST PRIVATELY OWNED OIL COMPANY.

LUKOIL OWNS THE SECOND LARGEST PROVEN OIL RESERVES GLOBALLY AND THEREFORE HAS STABLE ASSETS FOR THE FUTURE – ESPECIALLY WHEN IT COMES TO THE GROWING BUSINESS OF HIGH-QUALITY LUBRICANTS.



With a worldwide net of branch offices, LUKOIL not only ensures distribution, but also the continuous production of raw materials and development of new products.

LUKOIL strives for the perfect customer service. In recent years, the lubricants business in particular has taken the spotlight. Through steady improvement in seven refineries and production sites in Europe, including the newly added production and filling plant in the Ölhafen Lobau, LUKOIL Lubricants have convinced over 300 manufacturers in the automotive industry – first and foremost with premium oils for the challenging European market.

The Austrian market is gaining more importance because this is where LUKOIL

established the hub for supplying all Western European countries – not only with production and development, but also with a highly efficient distribution network. Therefore, the major share of the added value stays in Austria – in the middle of Europe. An important signal for long-term stability. Additionally,



Proven oil reserves in many regions the world ensure security of supply.

the decades of Austrian expertise in the role of a Central European hub on the gateway between East and West pay off when it comes to frictionless processing of critical logistics. The Danube harbor Lobau and the Vienna International Airport provide high-performance transit routes.

### LUKOIL-Lubricants goes by these three parameters:

- ▶ GROW SECURELY
- ▶ CONVINCED WITH QUALITY AND
- ▶ ENSURE ADVANTAGE THROUGH PERFORMANCE

Or, as our customers would put it:

**Ride with Pride**



▼ Motor Oil Classification SAE J300

SAE Class	Low Temperature Viscosity		High Temperature Viscosity	
	CCS [mPa.s]/[°C]	BPT [mPa.s]/[°C]	[mm <sup>2</sup> /s] @ 100°C	[mPa.s] @ 150°C & 10 <sup>6</sup> s <sup>-1</sup>
<b>Winter</b>				
0W	6.200/-35	60.000/-40	> 3.8	No Requirements
5W	6.600/-30	60.000/-35	> 3.8	
10W	7.000/-25	60.000/-30	> 4.1	
15W	7.000/-20	60.000/-25	> 5.6	
20W	9.500/-15	60.000/-20	> 5.6	
25W	13.000/-10	60.000/-15	> 9.3	
<b>Summer</b>	No Requirements			
8			4 - 6.1	> 1.7
12			5 - 7.1	> 2,0
16			6.1 - 8.2	> 2.3
20			6.9 - 9.3	> 2.6
30			9.3 - 12.5	> 2.9
40			12.5 - 16.3	> 2.9*/> 3.7**
50			16.3 - 21.9	> 3.7
60	21.9 - 26.1	> 3.7		

0W-40, 5W-40, 10W-40 \*  
15W-40, 20W-40, 25W-40, 40 \*\*

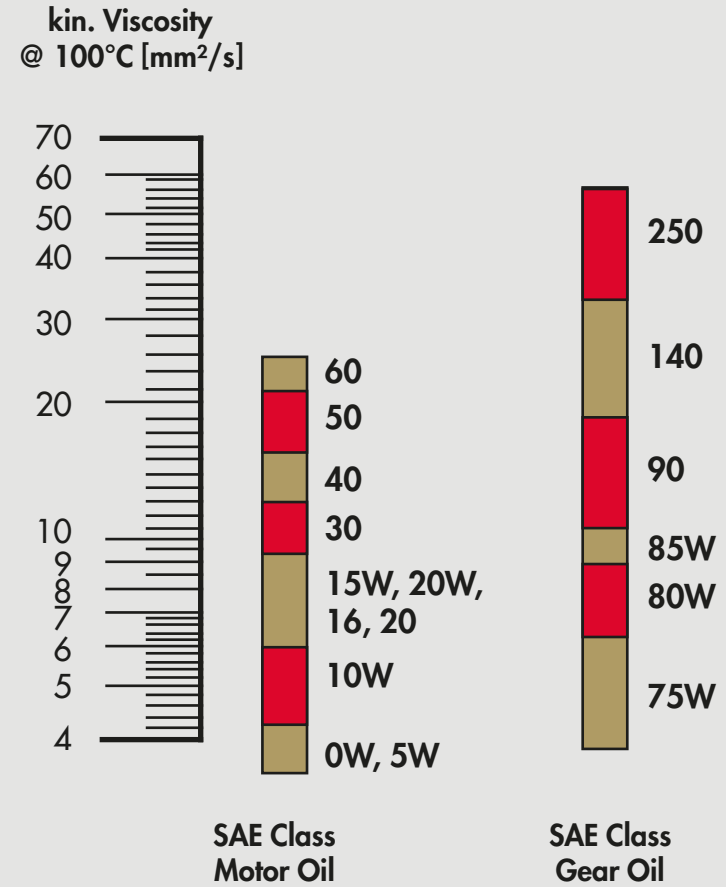
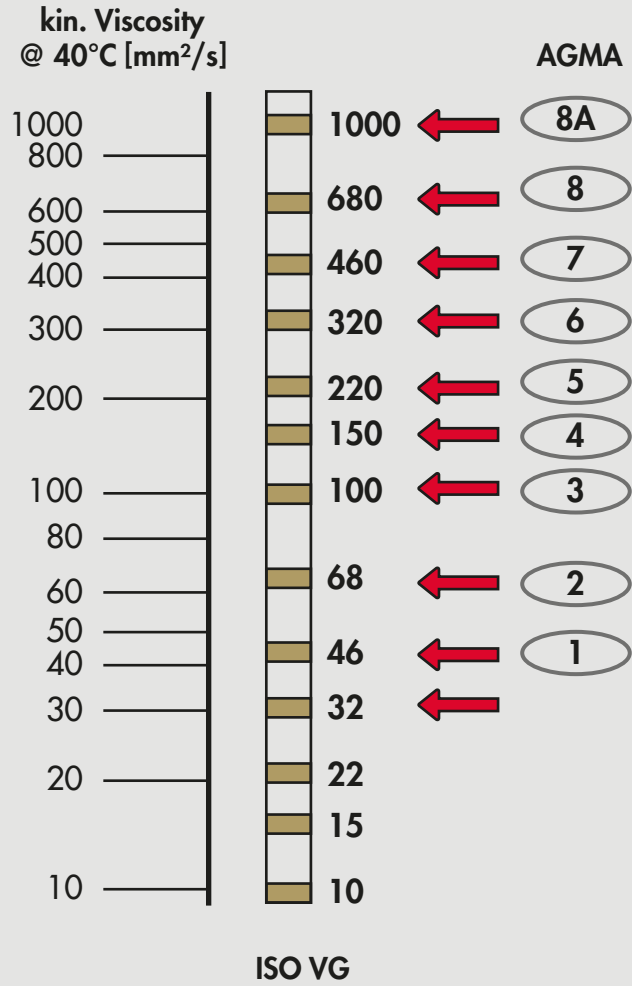
▼ Gear Oil Classification SAE J306

SAE Class	Low Temperature Viscosity Brookfield	High Temperature Viscosity Ubbelohde
	< 150.000 [mPa.s] @	[mm <sup>2</sup> /s] @ 100 °C
<b>Winter</b>		
70W	-55 °C	>4.1
75W	-40 °C	>4.1
80W	-26 °C	>7.0
85W	-12 °C	>11.0
<b>Summer</b>	No Requirements	
90		13.5 - 24.0
110		18.5 - 24.0
140		24.0 - 41.0
190		32.5 - 41.0
250		> 41.0

▼ Packages Data

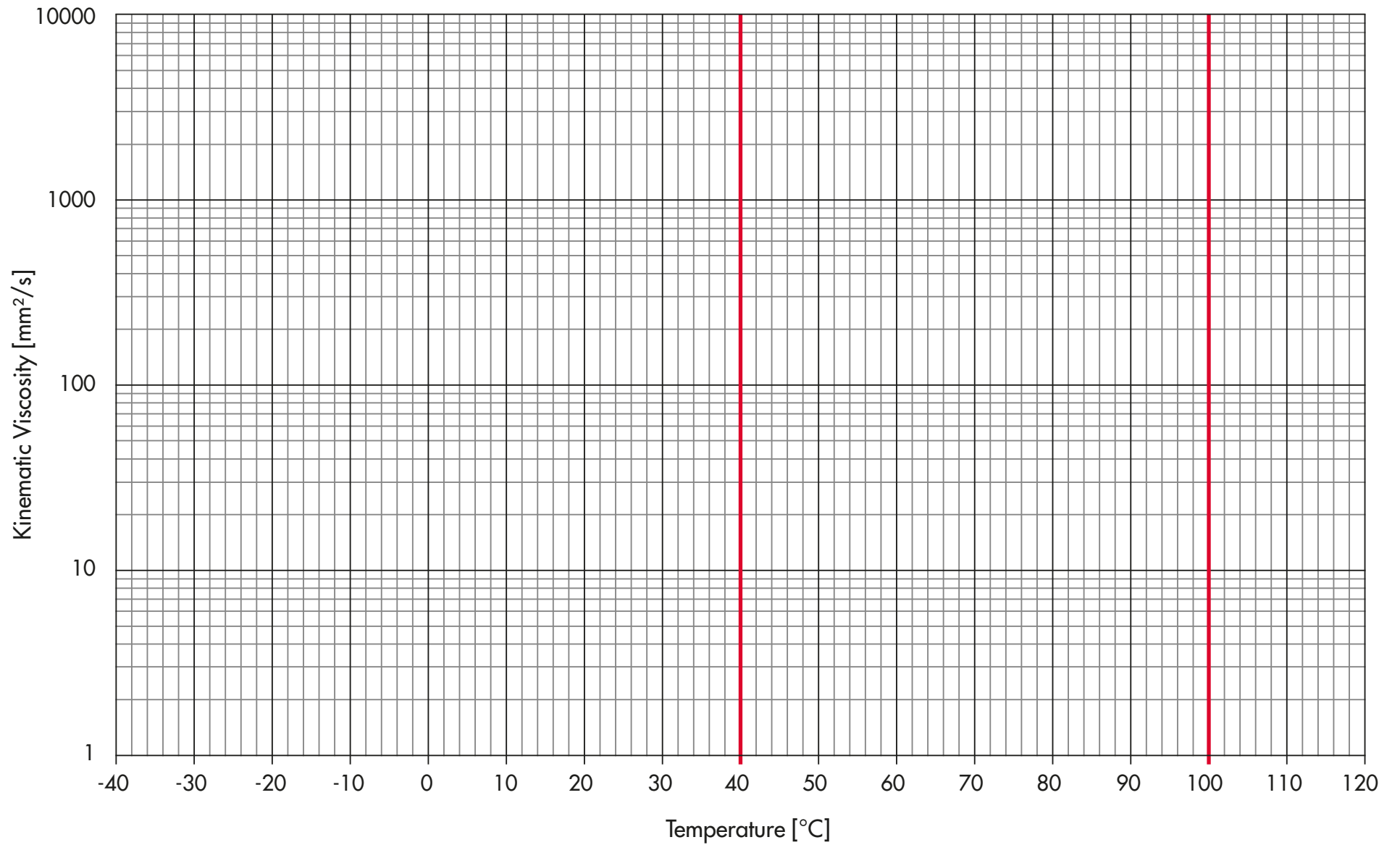
Package	Tara carton [kg]	Tara unit [kg]	Width [mm]	Height [mm]	Depth [mm]	Diameter [mm]	Pieces per Pallet	Pallet size [cm]	Pieces per packaging unit
1 Liter	0.35	0.08	260	240	380	-	432	120x80	12
5 Liter	0.32	0.3	260	330	380	-	81	120x80	3
20 Liter	-	1.1	248	385	290	-	12	120x80	-
Canister 60 Liter	-	4.1	-	586	-	384	6	120x80	-
Barrel 205 Liter	-	14.6	-	878	-	585	4	120x120	-
IBC Container	-	60	1000	1200	1200	-	-	-	-

## Viscosity Classification





# Viscosity Temperature Chart



# INDUSTRIAL OILS AND GREASES

HYDRAULIC & GEAR	Page
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 **LUKOIL**

The image shows a close-up of a white label on a red container. The label features the Lukoil logo, which consists of a stylized white 'L' inside a red square with a white border. To the right of the logo, the word 'LUKOIL' is printed in large, bold, red capital letters. The background is a blurred red surface, likely the rest of the container or another container in the same set.

▼ Hydraulic oils, mineral

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point ° C	Pour-point ° C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER ST 10</b> Prod. no.: 572510	LUKOIL GEYSER ST is a high quality mineral hydraulic oil with advanced additive technology. This product is ideal for use in hydraulic drives, lift systems, and presses according to the manufacturer's instructions. The balanced formulation offers optimal wear and corrosion protection, rapid air release, and low foaming.	10	2.8	>160	<-39	860	<b>DIN 51 524-HLP,</b> <b>Bosch Rexroth RD90220,</b> <b>Eaton Brochure 03-401-2010,</b> <b>GM LS-2,</b> <b>ISO 6743-HM,</b> <b>JCMAS HK,</b> <b>MAG IAS P-68/69/70,</b> <b>Parker Denison HF-0,</b> <b>SAE MS1004,</b> <b>US Steel 127/136,</b> <b>VDMA 24318-HLP,</b> <b>ZF-TE-ML 07H for 46 and 68</b>  Recommended by <b>PALFINGER!</b>  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: &gt;10</b>
<b>LUKOIL GEYSER ST 22</b> Prod. no.: 572520		22	4.3	>210	<-33	864	
<b>LUKOIL GEYSER ST 32</b> Prod. no.: 572530		32	5.5	>220	<-27	874	
<b>LUKOIL GEYSER ST 46</b> Prod. no.: 572540		46	6.7	>230	<-27	878	
<b>LUKOIL GEYSER ST 68</b> Prod. no.: 572550		68	9.0	>235	<-27	881	
<b>LUKOIL GEYSER ST 100</b> Prod. no.: 572560		100	11.0	>255	<-18	887	

▼ Hydraulic oils, mineral, multigrade

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER M 15</b> Prod. no.: 572620  <b>LUKOIL GEYSER M 32</b> Prod. no.: 572630  <b>LUKOIL GEYSER M 46</b> Prod. no.: 572640  <b>LUKOIL GEYSER M 68</b> Prod. no.: 572680	LUKOIL GEYSER M is a high quality mineral multigrade hydraulic oil with advanced additive technology. This product is ideal for use in hydraulic drives that are subject to wide ambient temperature fluctuations according to the manufacturer's instructions. The balanced formulation offers optimal wear and corrosion protection, rapid air release, and low foaming.	15	3.7	>170	<-39	852	DIN 51 524-HVLP, Bosch Rexroth RD90220, Eaton Brochure 03-401-2010, GM LS-2, ISO 6743-4 HV, JCMAS HK, MAG IAS P-68/69/70, Parker Denison HF-0, SAE MS1004, US Steel 127/136, VDMA 24318-HVLP, ZF-TE-ML 07H for 46 and 68  Recommended by <b>PALFINGER!</b>  Failure load stage DIN ISO 14635-1 A/8,3/90-M: >10
<b>LUKOIL GEYSER POLAR 15</b> Prod. no.: 572810  <b>LUKOIL GEYSER POLAR 32</b> Prod. no.: 572830	LUKOIL GEYSER POLAR is a high quality mineral multigrade hydraulic oil with advanced additive technology and extremely low viscosity temperature dependence. This product is ideal for use in hydrostatic systems that are subject to wide ambient temperature fluctuations according to the manufacturer's instructions. The balanced formulation offers optimal wear and corrosion protection, rapid air release, and low foaming. The product is subject to mineral oil tax.	16.2	4.3	>160	<-45	834	DIN 51 524-HVLP, ISO 6743-4 HV, VDMA 24318-HVLP  Recommended by <b>PALFINGER!</b>  LUKOIL GEYSER POLAR 32: MIL-F-17111A 8/73+Am 1 6/74, NATO Code H-575



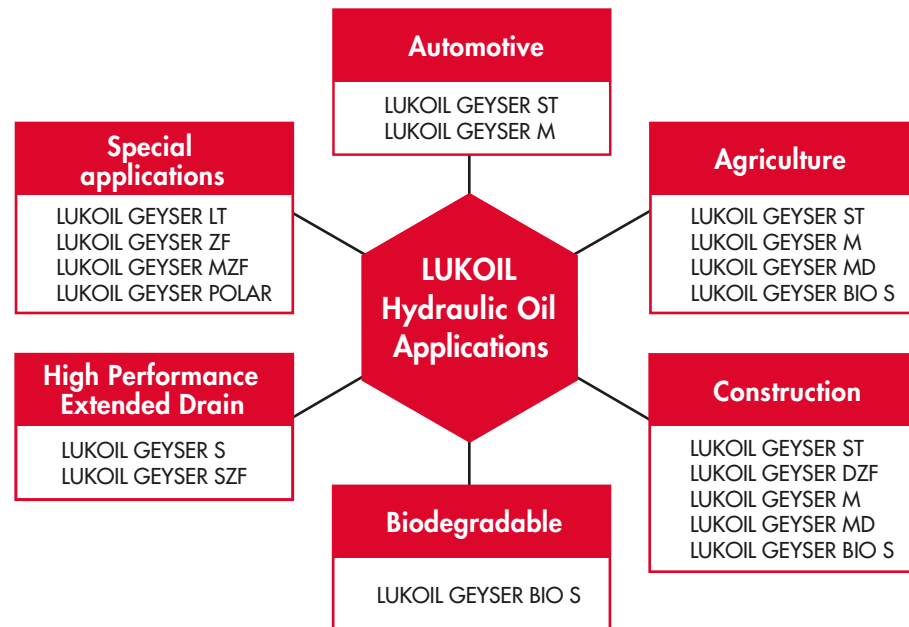
▼ Hydraulic oils, mineral, multigrade

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER LT 22</b> Prod. no.: 572850	LUKOIL GEYSER LT is a high-quality mineral multi-range hydraulic oil with advanced additive technology and a high viscosity index. This product is suitable according to manufacturer's instructions, excellent for use in hydraulic drives, the strong fluctuations in the ambient temperature are exposed.	22	4.7	>175	<-54	850	<b>DIN 51524-3 HVLP,</b> <b>ISO 6743-4 HV,</b> <b>Cincinnati Machine P-68 (LT 32)/ P-70 (LT 46),</b> <b>SS 15 54 34,</b> <b>Vickers I-286-S Industrial Equipment,</b> <b>Vickers M-2950-S Mobile Equipment</b>  Approvals: <b>Bosch Rexroth 90220 (ISO VG 32, 46),</b> <b>Eaton Vickers 35Q25 (ISO VG 32),</b> <b>HAEUSLER AG (ISO VG 46),</b> <b>PALFINGER,</b> <b>Parker Hannifin (Denison) HF-0, HF-1, HF-2,</b> <b>Siemens (ISO VG 46),</b> <b>Sulzer Pumps (type MD pumps),</b> <b>Thyssenkrupp (ISO VG 32, 46)</b>
<b>LUKOIL GEYSER LT 32</b> Prod. no.: 572855		32	7.1	>190	<-51	855	
<b>LUKOIL GEYSER LT 46</b> Prod. no.: 572860		46	9.2	>195	<-48	864	

▼ Hydraulic oils, mineral, ashless

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER ZF 32</b> Prod. no.: 572535	LUKOIL GEYSER ZF is a high quality, zinc-free mineral hydraulic oil with advanced additive technology. This product is ideal for use in hydraulic systems for which ash free hydraulic oils are prescribed and is also suitable for use in screw compressors according to the manufacturer's instructions. The balanced formulation offers optimal wear and corrosion protection, rapid air release, and low foaming.	32	5.4	>200	<-33	875	<b>DIN 51 524-HLP,</b> <b>ISO 6743-4 HM,</b> <b>VDMA 24318-HLP</b>  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: &gt;10</b>
<b>LUKOIL GEYSER ZF 46</b> Prod. no.: 572546		48	7.0	>220	<-30	881	
<b>LUKOIL GEYSER ZF 68</b> Prod. no.: 572555		70	8.7	>230	<-27	884	

## Application guideline for LUKOIL Hydraulic Oils



▼ Hydraulic oils, mineral, multigrade, ashless

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER MZF 15</b> Prod. no.: 572650	LUKOIL GEYSER MZF 15 is a high quality, zinc-free mineral multigrade hydraulic oil with advanced additive technology. This product is ideal for use in hydraulic systems for which ash free hydraulic oils are prescribed according to the manufacturer's instructions. The balanced, low ash formulation offers optimal wear and corrosion protection, rapid air release, and low foaming.	15.4	3.8	>170	<-33	861	DIN 51 524-HVLP, SEB 181 222-66, ISO 6743-4 HV, VDMA 24318-HVLP  Failure load stage DIN ISO 14635-1 A/8,3/90-M: >10

▼ Hydraulic oils, mineral, ashless, detergent

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER DZF 22</b> Prod. no.: 572740	LUKOIL GEYSER DZF is a high quality, zinc-free mineral hydraulic oil with advanced additive technology. Thanks to its detergent properties, this product is ideal for use in hydraulic systems subject to high soiling according to the manufacturer's instructions. The balanced, low ash formulation offers optimal wear and corrosion protection, rapid air release, and low foaming. The detergent properties effectively prevent system soiling and deposits.	22	4.4	>190	<-33	866	DIN 51 502-HLPD, DIN 51 517-CLP, ISO 11158 HM, DBL 6721.00  Failure load stage DIN ISO 14635-1 A/8,3/90-M: >12
<b>LUKOIL GEYSER DZF 32</b> Prod. no.: 572750		33.1	5.5	>220	<-30	874	
<b>LUKOIL GEYSER DZF 46</b> Prod. no.: 572760		47	6.7	>225	<-27	879	
<b>LUKOIL GEYSER DZF 68</b> Prod. no.: 572770		70.1	8.7	>235	<-24	885	

▼ Hydraulic oils, mineral, detergent, multigrade

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER MD 46</b> Prod. no.: 572780	LUKOIL GEYSER MD 46 is a high quality mineral multigrade hydraulic oil with advanced additive technology for heavy duty applications. Thanks to its detergent properties, this product is ideal for use in hydraulic systems subject to high soiling, such as construction machinery, utility vehicles, shears, and presses according to the manufacturer's instructions. The balanced formulation offers optimal wear and corrosion protection, rapid air release, and low foaming. The detergent properties effectively prevent system soiling and deposits.	45	7.8	>200	<-36	880	<b>DIN 51 502 HVLPD,</b> <b>DIN 51 517-CLP</b>

▼ Hydraulic oils, synthetic

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER S 46</b> Prod. no.: 572731	LUKOIL GEYSER S is a high quality synthetic hydraulic oil with advanced additive technology. This product is ideal for use in hydraulic drives, lift systems, and presses according to the manufacturer's instructions. The balanced formulation offers optimal wear and corrosion protection, rapid air release, and low foaming and allows maximum service intervals.	47	7.9	>230	<-24	850	<b>DIN 51 524-HLP-HC,</b> <b>ISO 6743-4-HS,</b> <b>SEB 181 222-66,</b> <b>VDMA 24318-HLP</b>  Recommended by <b>PALFINGER!</b>  Recommended by <b>ENGEL</b> for injection moulding machines!

▼ Hydraulic oils, synthetic, ashless

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER SZF 46</b> Prod. no.: 572721	LUKOIL GEYSER SZF 46 is a high quality, zinc-free synthetic hydraulic oil with advanced additive technology. This product is ideal for use in hydraulic drives, lift systems, and presses according to the manufacturer's instructions. The balanced, low ash formulation offers optimal wear and corrosion protection, rapid air release, and low foaming and allows maximum service intervals.	47.7	7.8	>250	<-12	847	<b>DIN 51 524-HLP,</b> <b>ISO 6743-4-HS,</b> <b>SEB 181 222-66,</b> <b>OENORM C 2027-3,</b> <b>VDMA 24318-HLP</b>  Recommended by <b>SALVAGNINI</b> machinery!

▼ Hydraulic oils, rapidly biodegradable

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL GEYSER BIO S 15</b> Prod. no.: 572691	LUKOIL GEYSER BIO S is a high quality, zinc-free, and rapidly biodegradable saturated synthetic ester-based hydraulic oil with advanced additive technology. This product is ideal for year-round use in heavy duty hydraulic systems in construction, agriculture, and machinery as well as in mobile equipment and sewage treatment systems according to the manufacturer's instructions. The balanced, low ash formulation allows maximum service intervals and offers optimal wear and corrosion protection, rapid air release, and low foaming while minimising environmental impact.  When switching from mineral to rapidly biodegradable hydraulic oil, we expressly recommend that you follow the conversion guidelines that are included with the product data sheet!	15	4.2	>220	<-54	927	<b>ON C 2027-HEES,</b> <b>VDMA 24-568 HEES</b>  Recommended by <b>PALFINGER!</b>  Biodegradability after 21 days in accordance with <b>ON C 1158: &gt;90%</b>
<b>LUKOIL GEYSER BIO S 32</b> Prod. no.: 572692		32	6.4	>230	<-57	915	
<b>LUKOIL GEYSER BIO S 46</b> Prod. no.: 572693		46	9.2	>210	<-54	915	



▼ Industrial gear oils, mineral

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL STEELO HST 68</b> Prod. no.: 579105	LUKOIL STEELO HST is a high quality mineral gear oil with advanced additive technology. This product is ideal for use in heavy duty industrial gearboxes and bearing assemblies according to the manufacturer's instructions.  The balanced formulation offers excellent wear and corrosion protection, low foaming, very good ageing resistance, and excellent compatibility with steel materials, non-ferrous metals, elastomer materials, and paint.	65	8.5	>210	<-21	882	<b>AGMA 250.04,</b> <b>AGMA 9005-D94,</b> <b>DIN 51 517-CLP,</b> <b>SEB 181 226,</b> <b>US Steel 222, 223, 224,</b> <b>ISO 12925-1 L-CKC</b>  <b>Timken Ltd specifications for rolling mill bearings</b>  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: &gt;12</b>  Ability to withstand grey staining in accordance with <b>FVA</b> information sheet no. 54/I-IV: >10  Approval: <b>SIEMENS MD (Flender) Revision 13,</b> <b>Müller Weingarten DT 55005</b>  STEELO HST 100: <b>Stiebel gear A2000, S2000,</b> <b>QuarryMaster,</b> <b>QuarryMaster highpower</b>  STEELO HST 220: <b>Stiebel gear P2000, P3000 etc.,</b> <b>B2000, A2000, S2000,</b> <b>QuarryMaster,</b> <b>QuarryMaster highpower</b>
<b>LUKOIL STEELO HST 100</b> Prod. no.: 579112		98	10.9	>210	<-18	885	
<b>LUKOIL STEELO HST 150</b> Prod. no.: 579114		155	14.7	>220	<-15	889	
<b>LUKOIL STEELO HST 220</b> Prod. no.: 579122		226	18.8	>235	<-15	897	
<b>LUKOIL STEELO HST 320</b> Prod. no.: 579132		319	23.6	>230	<-12	900	
<b>LUKOIL STEELO HST 460</b> Prod. no.: 579150		469	30.0	>230	<-12	906	
<b>LUKOIL STEELO HST 680</b> Prod. no.: 579168		666	39.4	>230	<-12	904	
<b>LUKOIL STEELO HST 1000</b> Prod. no.: 579170		1000	55	>230	<-9	904	

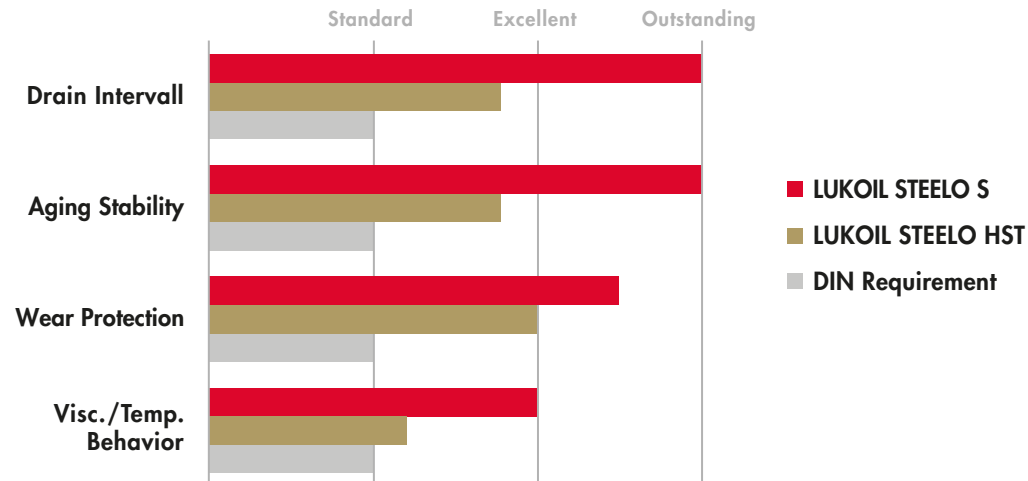
▼ Industrial gear oils, fully synthetic

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL STEELO S 68</b> Prod. no.: 579265	LUKOIL STEELO S is a high quality, fully synthetic high-performance gear oil with advanced additive technology. This product is ideal for use in heavy duty industrial gearboxes and bearing assemblies according to the manufacturer's instructions and ensures low-wear and energy-saving startup under low temperatures and maximum lubricating film stability at high temperatures. The balanced formulation ensures maximum service intervals and offers excellent wear and corrosion protection, low foaming, very good ageing resistance, and excellent compatibility with steel materials, non-ferrous metals, elastomer materials, and paint. LUKOIL STEELO S can be mixed with mineral industrial gear oils from the LUKOIL STEELO HST series; this means that no special steps must be taken when switching from one product to another.	66	10.3	>225	<-54	840	<b>AGMA 250.04,</b> <b>AGMA 9005-D94,</b> <b>DIN 51 517-CLP-HC,</b> <b>SEB 181 226,</b> <b>US Steel 222, 223, 224,</b> <b>ISO 12925-1 L-CKT</b>  Timken Ltd specifications for rolling mill bearings  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: &gt;12</b>  Approval: <b>SIEMENS MD (Flender) Revision 15,</b> <b>FLSMIDTH</b>  STEELO S 220: <b>Stiebel gear A2000, S2000,</b> <b>QuarryMaster,</b> <b>QuarryMaster highpower</b>
<b>LUKOIL STEELO S 100</b> Prod. no.: 579266		102	14.3	>235	<-48	842	
<b>LUKOIL STEELO S 220</b> Prod. no.: 579270		216	25.2	>240	<-42	846	
<b>LUKOIL STEELO S 320</b> Prod. no.: 579280		314	34.3	>250	<-39	848	
<b>LUKOIL STEELO S 460</b> Prod. no.: 579285		450,7	46.1	>230	<-36	863	
<b>LUKOIL STEELO S 680</b> Prod. no.: 579290		663,9	62.6	>230	<-31	863	
<b>LUKOIL STEELO PG 220</b> Prod. no.: 579250	LUKOIL STEELO PG is a high quality, high-performance polyalkylene glycol-based gear oil with advanced additive technology. This product is ideal for use in extremely heavy duty industrial gearboxes such as worm gears with steel and bronze components (not aluminium) according to the manufacturer's instructions and ensures low-wear and energy-saving startup under low temperatures and maximum lubricating film stability at high temperatures. The balanced formulation ensures maximum service intervals and offers excellent wear and corrosion protection, low foaming, and very good ageing resistance. Compatibility with elastomer materials and paint must be determined in advance. LUKOIL STEELO PG is not compatible with mineral, synthetic, and rapidly biodegradable gear oils!	220	36.8	>240	<-36	1072	<b>DIN 51 517-CLP-PG,</b> <b>ISO 12925-1 L-CKT</b>  Exceeds <b>Timken</b> Ltd. specifications for rolling mill bearings (load 60 lbs)  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: &gt;12</b>
<b>LUKOIL STEELO PG 460</b> Prod. no.: 579260		460	75.1	>280	<-36	1075	

▼ Industrial gear oils, fully synthetic, rapidly biodegradable

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL STEELO BIO S 150</b> Prod. no.: 579530	LUKOIL STEELO BIO S are high quality, zinc-free, rapidly biodegradable saturated synthetic ester-based gear oils with advanced additive technology. These products are ideal for use in heavy duty industrial gearboxes according to the manufacturer's instructions and ensure low-wear and energy-saving startup under low temperatures and maximum lubricating film stability at high temperatures. The balanced formulation ensures maximum service intervals and offers excellent wear and corrosion protection, low foaming, and very good ageing resistance as well as good compatibility with elastomer materials and paint while minimising environmental impact. When switching from mineral to rapidly biodegradable gear oil, we expressly recommend that you follow the conversion guidelines that are included with the product data sheet!	150.7	21.4	>225	<-27	946	<b>DIN 51 517 CLP-E</b>  Exceeds <b>Timken</b> Ltd. specifications for rolling mill bearings  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: &gt;12</b>  Biodegradability after 21 days in accordance with <b>ON C 1158: &gt;90%</b>
<b>LUKOIL STEELO BIO S 220</b> Prod. no.: 579540		219.1	28.5	>230	<-24	956	

Gear oil characteristics

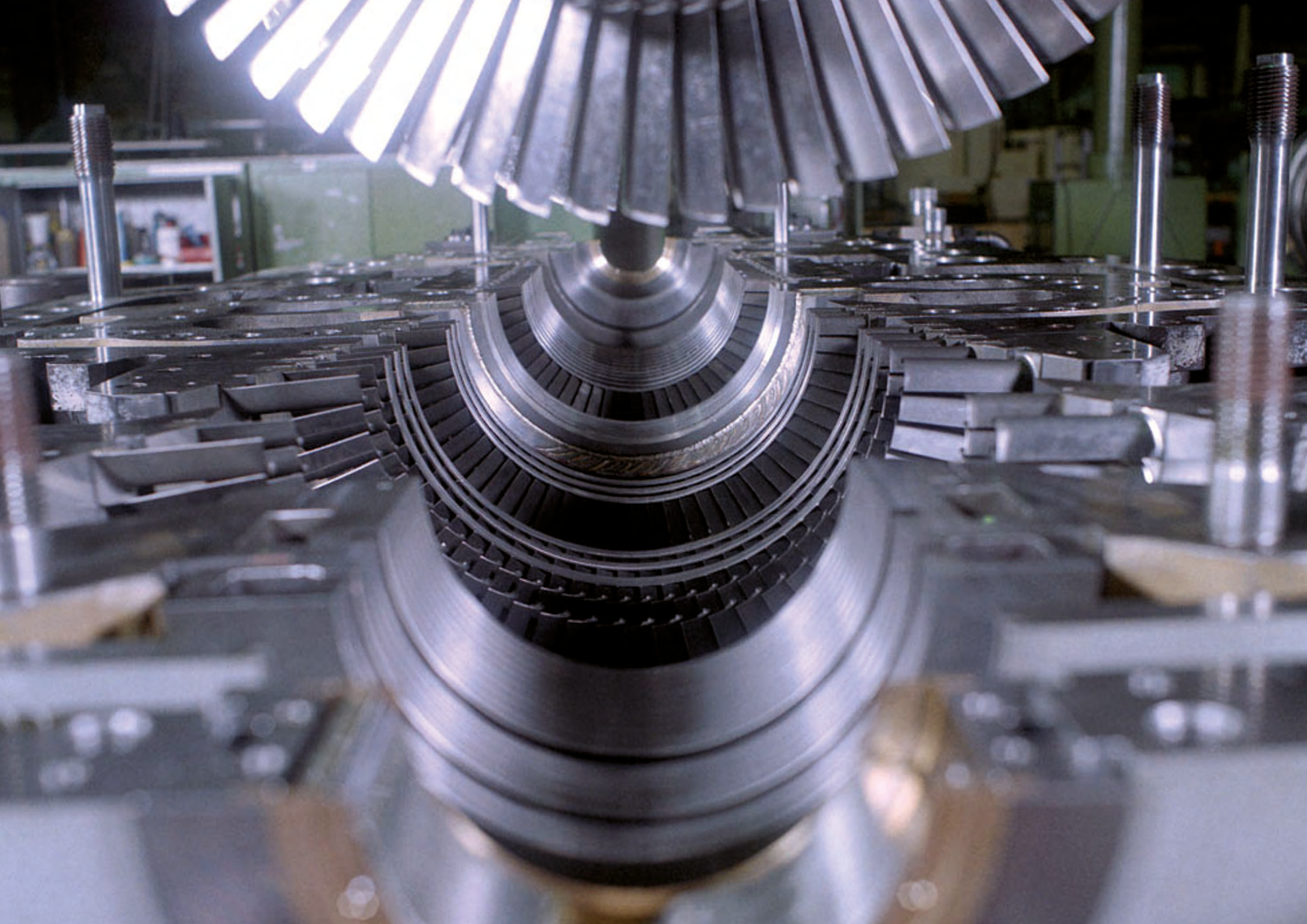


# INDUSTRIAL OILS AND GREASES

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# LUKKOIL



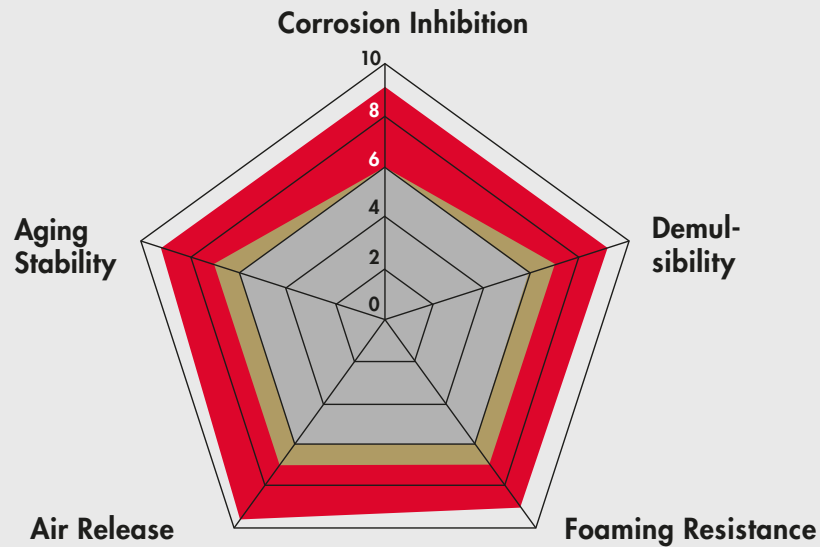




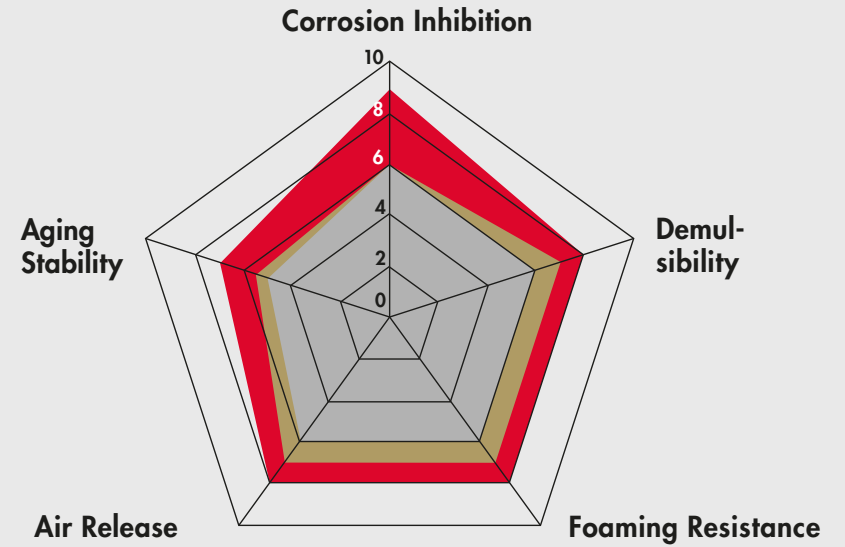
▼ Turbine oils, synthetic

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL TORNADO S 32</b> Prod. no.: 572260  <b>LUKOIL TORNADO S 46</b> Prod. no.: 572265	LUKOIL TORNADO S is a high quality synthetic turbine oil developed especially for turbines with higher operating temperatures. It offers excellent ageing resistance, especially good air and water release, and reliable corrosion protection. This product is ideal as a lubricating oil in gas turbines and for applications with higher thermal loads requiring an oil with extreme ageing resistance according to the manufacturer's instructions.	32.2	5.8	>230	<-36	843	Lubricating oils <b>DIN 51 515-TG</b>  LUKOIL TORNADO S meets the performance level of <b>MAN TURBO, SIEMENS TLV 901305, GENERAL ELECTRIC.</b>
<b>LUKOIL TORNADO SEP 32</b> Prod. no.: 572270  <b>LUKOIL TORNADO SEP 46</b> Prod. no.: 572275	LUKOIL TORNADO SEP is a high quality synthetic turbine oil developed especially for turbines with higher operating temperatures. It offers excellent ageing resistance, especially good air and water release, and reliable wear and corrosion protection. This product is ideal as a lubricating oil in gas turbines with gearboxes and for applications with higher thermal loads requiring an oil with extreme ageing resistance and wear protection according to the manufacturer's instructions.	32.3	5.9	>230	<-36	845	Lubricating oils <b>DIN 51 515-TGP</b>  LUKOIL TORNADO SEP meets the performance level of <b>SIEMENS, GENERAL ELECTRIC.</b>  Approvals: <b>MAN Turbo,</b> <b>SIEMENS TLV 901305,</b> <b>VOITH Turbo</b>
<b>LUKOIL TORNADO SNH 46</b> Prod. no.: 572280	LUKOIL TORNADO SNH 46 is a high quality synthetic turbine oil developed especially for applications where the turbine oil can come into contact with ammonia. It offers good ageing resistance, especially good air and water release, and reliable corrosion protection. This product is ideal as a lubricating oil in turbines and turbo compressors according to the manufacturer's instructions.	48.8	7.9	>245	<-33	844	Lubricating oils <b>DIN 51 515-TD</b>

## Turbine oil characteristics



■ LUKOIL TORNADO SEP ■ EB Specification ■ DIN Standard



■ LUKOIL TORNADO EP ■ EB Specification ■ DIN Standard

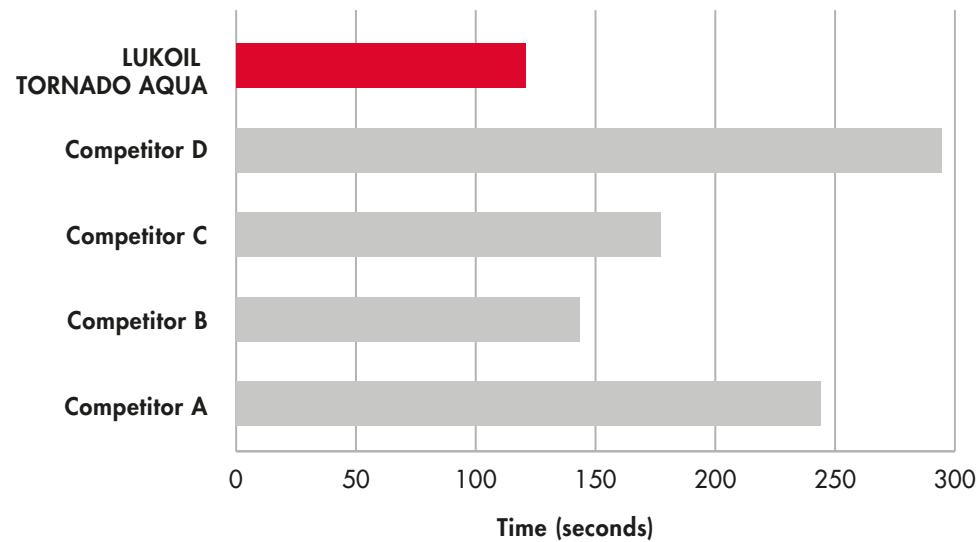
▼ Turbine oils, mineral

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL TORNADO 32</b> Prod. no.: 572020	LUKOIL TORNADO are high quality mineral turbine oils. The products offer excellent ageing resistance, especially good air and water release, and reliable corrosion protection.	32	5.3	>200	<-15	874	Lubricating oils <b>DIN 51515-TD</b>
<b>LUKOIL TORNADO 46</b> Prod. no.: 572010	LUKOIL TORNADO are suitable as lubricating oils for steam turbines according to the manufacturer's instructions.	46	6.5	>220	<-15	855	LUKOIL TORNADO Öle oils meet the requirements of <b>BBC, ELIN, Kraftwerksunion, MAN, STAL-LAVAL</b>
<b>LUKOIL TORNADO 68</b> Prod. no.: 572060		68	8.6	>220	<-12	878	Approvals: LUKOIL TORNADO 32 and 46 are approved by <b>SIEMENS</b> Energieerzeugung (KWU), <b>KK&amp;K</b>
<b>LUKOIL TORNADO EP 32</b> Prod. no.: 572220	LUKOIL TORNADO EP are high quality mineral turbine oils. The products offer excellent ageing resistance, especially good air and water release, and reliable wear and corrosion protection.	32	5.3	>200	<-18	870	<b>DIN 51 506-VB, -VBL, DIN 51 515-TDP, DIN 51 517-CL, DIN 51 524-HL, VDMA 24318-HL, SEB 181 222</b>
<b>LUKOIL TORNADO EP 46</b> Prod. no.: 572230	LUKOIL TORNADO EP are suitable as lubricating oils for steam turbines with gearboxes according to the manufacturer's instructions.	46	6.5	>210	<-15	873	Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: 9</b>
<b>LUKOIL TORNADO EP 68</b> Prod. no.: 572240		68	8.6	>210	<-12	878	Approvals: <b>SIEMENS</b> Energieerzeugung (KWU)

▼ Turbine oils for water turbines

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL TORNADO AQUA 78</b> Prod. no.: 572255	LUKOIL TORNADO AQUA 78 is a high quality mineral turbine oil. This product offer excellent ageing resistance, especially good air and water release, and reliable corrosion protection. LUKOIL TORNADO AQUA 78 is a suitable as lubricating oil for water and steam turbines and for hydraulic and circulation lubrication systems according to the manufacturer's instructions.	78	9.4	>210	<-21	885	Lubricating oils <b>DIN 51 515-TD</b> , <b>ISO 8086-L-TSA 68</b> and <b>-TGA 68</b>  LUKOIL TORNADO AQUA meets the requirements of <b>BBC, DEMAG-DELAVAL, ELIN, Kraftwerkunion, MAN, STAL-LAVAL</b> .

Water separation ability (DIN 51589) of LUKOIL TORNADO AQUA



▼ Compressor oils, mineral

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL STABIO VDL 46</b> Prod. no.: 571828	LUKOIL STABIO VDL is a mineral, zinc-free compressor oil for motor, rotor, bearing, and cylinder lubrication in screw (ISO VG 46 and 68) and piston compressors (ISO VG 100 and 150) with oil-lubricated pressure chambers, with and without injection cooling. It can be used at compression temperatures up to 220°C, prevents the formation of deposits, and ensures high reliability. Also suitable for use in ammonia compressors and as vacuum pump oil according to the manufacturer's instructions.	46	6.7	>220	<-33	877	<b>DIN 51 506-VB/ -VBL/ -VC/ -VCL/ -VDL, ISO 6521 DAA/ DAB/ DAH/ DAG</b>
<b>LUKOIL STABIO VDL 68</b> Prod. no.: 571830		70	8.8	>235	<-24	880	
<b>LUKOIL STABIO VDL 100</b> Prod. no.: 571840		98	10.9	>245	<-18	882	
<b>LUKOIL STABIO VDL 150</b> Prod. no.: 571850		149	14.4	>250	<-18	883	

▼ Compressor oils, mineral, detergent

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL STABIO D 46</b> Prod. no.: 571822	LUKOIL STABIO D is a mineral, light detergent compressor oil containing zinc for screw, piston, and rotary vane compressors. It offers excellent ageing resistance and protects the machines reliably against corrosion and wear, has good low-temperature characteristics, rapid air release, and low foaming. LUKOIL STABIO D is ideal for lubricating motors and compressor units in screw compressors. It can also be used in air vacuum pumps, including pumps that work against pressure above normal atmospheric pressure.	47.4	6.9	>220	<-27	877	<b>DIN 51 506-VB/ -VBL/ -VC/ -VCL/ -VDL, ISO 6521 DAA/ DAB/ DAH/ DAG</b>
<b>LUKOIL STABIO D 68</b> Prod. no.: 571823		68.7	8.7	>225	<-24	883	



▼ Compressor oils, synthetic

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL STABIO S 32</b> Prod. no.: 571530	LUKOIL STABIO S are fully synthetic, zinc-free compressor and hydraulic oils. They were developed especially for use in screw compressors, but can also be used in turbo compressors, hydraulic systems, and many types of gearboxes. LUKOIL STABIO S can be used at extremely low temperatures and offer considerably longer service intervals and lower maintenance and repair costs than mineral oils. Also suitable for ammonia compressors and for vacuum pumps due to the low vapour pressure.	32	6.0	>220	<-54	828	<b>DIN 51 506-VB-HC/ -VBL-HC/ -VC-HC/ -VCL-HC/ -VDL-HC,</b> <b>ISO 6521 DAA/ DAB/ DAH/ DAG</b>  Hydraulic oils <b>DIN 51 524-HVLP-HC</b>  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: 12</b>
<b>LUKOIL STABIO S 46</b> Prod. no.: 571532		46	7.6	>230	<-48	834	
<b>LUKOIL STABIO S 68</b> Prod. no.: 571535		70	11.5	>260	<-48	836	
<b>LUKOIL STABIO S 100</b> Prod. no.: 571540		100	14.2	>240	<-45	83.	

# INDUSTRIAL OILS AND GREASES

## GAS ENGINES

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Gas engine oils

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# LUKKOIL



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▼ Gas engine oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL EFFORSE XDI 4004</b> Prod. no.: 566056	LUKOIL EFFORSE XDI 4004 is an extremely low ash semi-synthetic gas engine oil for maximum service intervals. This motor oil is ideal for use in four stroke gas engines with or without turbochargers and catalytic converters. The advanced additive technology protects reliably against the formation of deposits in the combustion chamber and exhaust system, prevents sediment formation and carbonisation, and offers excellent corrosion protection.  Not suitable for use in petrol or diesel engines!	134	14.6	>230	<-27	875	<b>MAN 3271-2,</b> <b>DEUTZ 0199-99-2105/7</b>  Approvals: <b>GE-JENBACHER TA 1000-1109</b>
<b>LUKOIL EFFORSE 4004</b> Prod. no.: 566025	LUKOIL EFFORSE 4004 is an extremely low ash mineral gas engine oil. This motor oil is ideal for use in four stroke gas engines with or without turbochargers and catalytic converters. The advanced additive technology protects reliably against the formation of deposits in the combustion chamber and exhaust system, prevents sediment formation and carbonisation, and offers excellent corrosion protection.  Not suitable for use in petrol or diesel engines!	131	14.2	>230	<-21	884	<b>MAN 3271-2</b>  Approvals: <b>DEUTZ 0199-99-2105/7,</b> <b>GE-JENBACHER TA 1000-1109,</b> <b>MHI GS16R2</b>
<b>LUKOIL EFFORSE HD 4009</b> Prod. no.: 566055	LUKOIL EFFORSE HD 4009 is a low ash mineral gas engine oil. This motor oil is ideal for use in four stroke gas engines under heavy duty operating conditions. The advanced additive technology protects reliably against the formation of deposits in the combustion chamber and exhaust system, prevents sediment formation and carbonisation, and offers excellent corrosion protection.  Not suitable for use in petrol or diesel engines!	125	13.5	>230	<-24	892	<b>MIL-L-2104B/C,</b> <b>API CC</b>  Approvals: <b>MAN 3271-4,</b> <b>MDE 57 AP 2008,</b> <b>MTU BR 400,</b> <b>GE-JENBACHER TA 1000-1109</b>



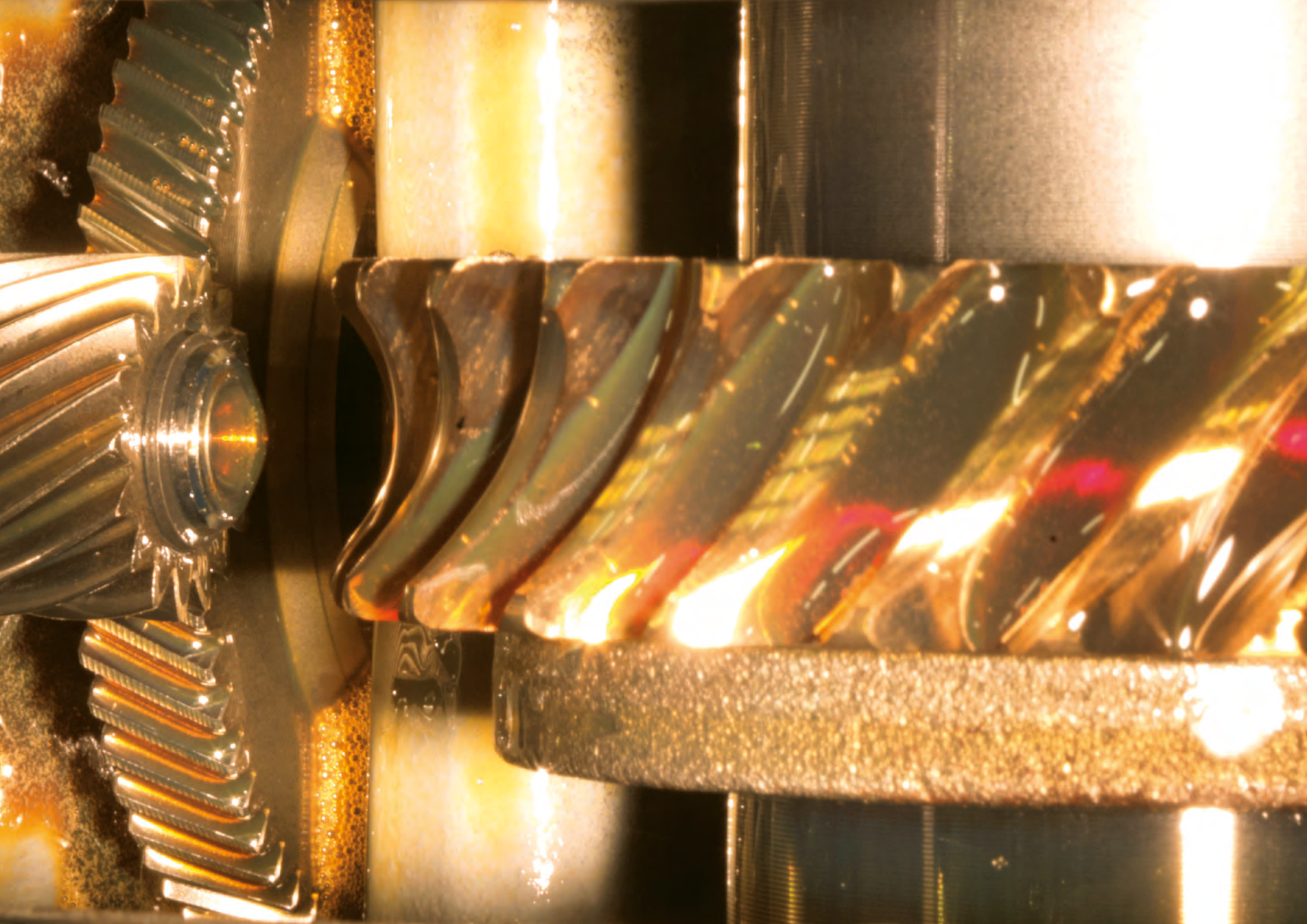


# INDUSTRIAL OILS AND GREASES

## METALWORKING

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▼ Cooling lubricants, water-miscible, emulsion concentrates

Product name	Description, Guidelines for use	Mineral oil content %	pH value 5%	Corrosion protection S0/R0 %	Refractometer factor	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL MIXCUT GR PREMIUM</b> Prod. no.: 581030	LUKOIL MIXCUT GR PREMIUM is a water emulsifiable cooling lubricant concentrate containing mineral oil for grinding cast iron, steel, high alloy steels, and aluminium. It is a boron-free cooling lubricant that contains amine and that has very good corrosion properties. <b>Must be stored above freezing!</b>	20	9.9	5.0	1.5	975	
<b>LUKOIL MIXCUT GR</b> Prod. no.: 581031	LUKOIL MIXCUT GR is a mineral oil-based emulsifiable cooling lubricant. Ideal for grinding at a recommended concentration of 1–3%. Usable for other machining work at a concentration of 5–10% depending on the load, and as an additive for the fluid in press water hydraulic systems (3%). <b>Must be stored above freezing!</b>	80	8.6	3.0	0.86	884	DIN 51 502-HFA
<b>LUKOIL MIXCUT AL</b> Prod. no.: 581018	LUKOIL MIXCUT AL is a high-performance universal emulsifiable cooling lubricant that is based on mineral oils and esters as performance enhancers. Ideal for machining aluminium materials and aluminium alloys containing high levels of silicon. The product is boron-free and also suitable for machining non-ferrous metals. Concentration: 4% or higher. <b>Must be stored above freezing!</b>	46	9.1	4.0	0.9	980	
<b>LUKOIL MIXCUT UN PREMIUM</b> Prod. no.: 581036	LUKOIL MIXCUT UN PREMIUM is a water emulsifiable cooling lubricant concentrate containing mineral oil for general machining work such as turning, milling, drilling, and sawing cast iron, steel, high alloy steels, and especially all varieties of aluminium alloys. It can be used universally on individually filled machines and central systems and has good cooling and flushing properties. <b>Must be stored above freezing!</b>	45	9.8	5.0	1	952	
<b>LUKOIL MIXCUT UN</b> Prod. no.: 581037	LUKOIL MIXCUT UN is a universal emulsifiable cooling lubricant that is based on mineral oils and synthetic esters as performance enhancers. It is suitable for nearly all machining work and materials, especially for materials that are very sensitive to corrosion. Very good foaming and flushing properties. Concentration: 3% or higher. <b>Must be stored above freezing!</b>	40	9.2	4.0	1.16	966	



▼ Cooling lubricants, water-miscible, additives for emulsions

Product name	Description, Guidelines for use	Mineral oil content %	pH value 5%	Corrosion protection S0/R0 %	Refractometer factor	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>TROYSHIELD SC1</b> Prod. no.: 581039	TROYSHIELD SC1 is a system cleaner with anti-bacterial properties for machine tools and central cooling lubricant systems for use before initial filling. Concentration: 1.0–3.0%. <b>Must be stored above freezing!</b>	–	11,6 (1%)	–	–	1053	

▼ Metalworking oils for metal cutting, chlorine-free

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL CUT SU</b> Prod. no.: 577225	LUKOIL CUT SU is a high-performance mineral cutting oil with good flushing properties for heavy machining processes. Ideal for tapping, tooth flank and thread grinding, shaping, gear tooth machining, hobbing, and reaming. Ideal for machining low, high, and extremely high alloy steels, Cr-Ni steel, austenitic and martensitic steels, high alloy cast iron (Ni, Cr), and extremely tough materials (Ni, Co, Ti alloys, etc.).	33.5	5.6	>190	<-18	892	
<b>LUKOIL CUT XU</b> Prod. no.: 577615	LUKOIL CUT XU is a high-performance mineral cutting oil for medium and heavy machining processes. Ideal for deep drilling, tapping, grinding with diamond blades (high stock removal), hobbing, and reaming. Ideal for machining low, high, and extremely high alloy steels, Cr-Ni steel, austenitic and martensitic steels, high alloy cast iron (Ni, Cr), and extremely tough materials (Ni, Co, Ti alloys, etc.).	22.5	4.5	>190	<-21	877	

▼ Metalworking oils for metal cutting, chlorine-free

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL SUPERGRIND 7</b> Prod. no.: 577147	LUKOIL SUPERGRIND 7 is a high-performance, low viscosity synthetic grinding oil for high-speed and deep grinding processes, especially on carbide metal materials. It has excellent cooling, flushing, and stock removal properties and ensures maximum finish quality and short processing times. The high ageing resistance ensures a long service life with stable viscosity.	7.3	2.0	>130	<-12	856	
<b>LUKOIL SUPERGRIND 18</b> Prod. no.: 577150	LUKOIL SUPERGRIND 18 is a high-performance mineral grinding oil for high-strength steels. It has good cooling, flushing, and stock removal properties and ensures maximum finish quality and short processing times. The high ageing resistance ensures a long service life with stable viscosity. It can also be used for medium machining processes with geometrically defined cutting edges (such as drilling, turning, and milling).	18.5	4.0	>200	<-9	854	
<b>LUKOIL GRIND YEL</b> Prod. no.: 577116	LUKOIL GRIND YEL is a high-performance synthetic grinding oil for high grinding speeds, especially on steel sheet. It offers optimal stock removal, good flushing properties, and good compatibility with sandpaper plus the easy separation of filings, for example in centrifugal separators. <b>This product is subject to mineral oil tax.</b>	4.3	1.5	>115	<-27	865	
<b>LUKOIL CUT YM</b> Prod. no.: 577215	LUKOIL CUT YM is a universal mineral cutting oil for medium to heavy machining processes such as reaming and tooth flank machining on alloy steels, carbon steels, cast iron, aluminium, and non-ferrous metals. Also suitable as a forming oil for deep drawing and rolling.	43	6.9	>235	<-24	888	
<b>LUKOIL CUT YU</b> Prod. no.: 577230	LUKOIL CUT YU is a universal mineral cutting oil for light to medium machining processes such as deep drilling and tapping in non alloy and low alloy steels, carbon steels, cast iron, aluminium, and non-ferrous metals. Also suitable as a forming oil for light forming processes and as a multifunctional oil for hydraulic controllers.	22.5	4.4	>200	<-15	865	



▼ Metalworking oils for metal cutting, chlorine-free

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL DRILL DL 10</b> Prod. no.: 576310	LUKOIL DRILL DL is a mineral deep drilling oil with excellent flushing properties. The selected formulation allows rapid progress and provides for high machining accuracy and long tool replacement intervals.	10.6	2.8	>150	<-24	859	
<b>LUKOIL DRILL DL 18</b> Prod. no.: 576315		17.5	3.9	>190	<-18	867	
<b>LUKOIL HONE YL</b> Prod. no.: 577420	LUKOIL HONE YL is a high-performance synthetic honing oil with a low viscosity and outstanding flushing properties. It allows for efficient stock removal, high finish quality and long tool replacement intervals. <b>This product is subject to mineral oil tax!</b>	4.7	1.6	>110	<-24	864	

▼ Metalworking oils for forming processes, chlorine-free

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL DRAW YU 200</b> Prod. no.: 576130	LUKOIL DRAW YU 200 is a mineral, high additive forming oil with excellent pressure properties for heavy forming processes on high-strength materials. Also ideal for fine cutting.	165	17.5	>170	<-12	958	
<b>LUKOIL SUPERDRAW E 70</b> Prod. no.: 576140	LUKOIL SUPERDRAW E 70 is a forming oil for heavy forming processes on high-strength materials. Also ideal for non-cutting tapping.	71	9.0	>190	<-9	897	
<b>LUKOIL DRAW DY</b> Prod. no.: 576210	LUKOIL DRAW DY is a mineral forming oil ideally suited for processing non-ferrous metals. It was developed especially for drawing copper wire and vaporises with no residues after annealing.	225	20.5	>250	<-12	904	

▼ Metalworking oils, quenching oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL ASSISTO</b> Prod. no.: 571140	LUKOIL ASSISTO is a mineral hardening oil and ensures excellent hardening results thanks to its rapid cooling properties.	15	3.5	>180	<-15	849	Hardening and annealing oil acc. <b>DIN 51 502-L 15</b>

▼ Metalworking oils for slideway

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL SLIDO 68</b> Prod. no.: 575505	LUKOIL SLIDO is a zinc-free mineral slideway oil designed primarily for machines in the metal processing industry and prevents stick slip at low feed speeds. The product helps to improve the finish quality of the processed materials, lengthens tool replacement intervals, and reduces slideway wear. It has excellent adhesion, good corrosion protection, very good demulsifying properties, and high ageing resistance.	73	9.1	>230	<-27	881	<b>DIN 51 502 CG/ 51 502 CGLP,</b> <b>DIN 51 517 CLP,</b> <b>ISO/TR 3498-G,</b> <b>ISO 6743/13-G</b>  <b>Cincinnati P47 (LUKOIL SLIDO 68)</b> <b>Cincinnati P50 (LUKOIL SLIDO 220)</b>  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: &gt;12</b>
<b>LUKOIL SLIDO 220</b> Prod. no.: 575520		220	18.7	>250	<-15	894	
<b>LUKOIL SLIDO 320</b> Prod. no.: 575530		315	23.5	>260	<-12	898	



# INDUSTRIAL OILS AND GREASES

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▼ Lubricating grease based on Al complex soaps

Product name	Description, Guidelines for use	Soapbase	Base oil viscosity at 40° C in mm <sup>2</sup> /s	NLGI consistency	Penetration 1/10mm	Dropping point °C	Meets Requirements Quality Level, Approvals
<b>LUKOIL SIGNUM AX 1</b> Prod. no.: 589572	LUKOIL SIGNUM AX 1 is an aluminium complex soap grease with a mineral base stock. The product offers high wear protection, excellent resistance against water, acids, and lyes, and can be used at temperatures from -30 to +180°C. Also ideal for lubricating spindle drives according to the manufacturer's instructions.	Al compl.	220	1	300	>275	Grease <b>DIN 51 825-KP 1 R-30</b>

▼ Synthetic greases

Product name	Description, Guidelines for use	Soapbase	Base oil viscosity at 40° C in mm <sup>2</sup> /s	NLGI consistency	Penetration 1/10mm	Dropping point °C	Meets Requirements Quality Level, Approvals
<b>LUKOIL SIGNUM SXT 2</b> Prod. no.: 589790	LUKOIL SIGNUM SXT 2 is a lithium complex soap grease with fully synthetic base stock. The product offers high wear protection and can be used for any application at temperatures from -30 to +200°C. Ideal for lubricating components subject to high mechanical and thermal loads according to the manufacturer's instructions.	Li compl.	270	2	275	>295	Grease <b>DIN 51 825-KP HC 2 S-30</b>

▼ Lubricating greases based on Li soaps

Product name	Description, Guidelines for use	Soapbase	Base oil viscosity at 40° C in mm <sup>2</sup> /s	NLGI consistency	Penetration 1/10mm	Dropping point °C	Meets Requirements Quality Level, Approvals
<b>LUKOIL GREASE L 2</b> Prod. no.: 589720	LUKOIL GREASE L are lithium soap greases with mineral base stock. The products can be used for any application at temperatures from -30 to +120°C. Ideal for lubricating machines, motor vehicles, and agricultural equipment according to the manufacturer's instructions.	Li	120	2	275	>195	Grease <b>DIN 51 825-K 2 K-30</b>
<b>LUKOIL GREASE L 3</b> Prod. no.: 589730		Li	120	3	225	>195	Grease <b>DIN 51 825-K 3 K-30</b>
<b>LUKOIL SIGNUM EPL 1</b> Prod. no.: 589825	LUKOIL SIGNUM EPL are lithium soap EP greases with mineral base stock. The products offer high wear protection and can be used for any application at temperatures from -30 to +120°C and up to +140°C for brief periods. Ideal for the lubrication of heavy duty roller and plain bearings in machinery and vehicles.	Li	120	1	310/340	>185	Grease <b>DIN 51 825-KP 1 K-30</b>
<b>LUKOIL SIGNUM EPL 2</b> Prod. no.: 589830		Li	120	2	265/295	>190	Grease <b>Stiebel gear A2000</b>
<b>LUKOIL SIGNUM EPL 3</b> Prod. no.: 589835		Li	120	3	220/250	>190	Grease <b>DIN 51 825-KP 3 K-30</b>
<b>LUKOIL SIGNUM LMG 2</b> Prod. no.: 589740	LUKOIL SIGNUM LMG 2 is a lithium soap EP grease with mineral base stock and MoS <sub>2</sub> . The product offers high wear protection and excellent dry-running properties and can be used for any application at temperatures from -30 to +120°C. Ideal for the lubrication of heavy duty roller and plain bearings in machinery and vehicles.	Li	120	2	275	>195	Grease <b>DIN 51 825-KPF 2 K-30</b> <b>Ford ESW-M1C71-A/ ESA-M1C75-B</b>

▼ Lubricating greases based on Li soaps

Product name	Description, Guidelines for use	Soapbase	Base oil viscosity at 40°C in mm <sup>2</sup> /s	NLGI consistency	Penetration 1/10mm	Dropping point °C	Meets Requirements Quality Level, Approvals
<b>LUKOIL SIGNUM EPW 2</b> Prod. no.: 589745	LUKOIL SIGNUM EPW 2 is a lithium soap EP grease with mineral base stock. The product offers high wear protection and high adhesion and water resistance at temperatures from -30 to +120°C and up to +140°C for brief periods. Ideal for heavy duty lubrication points that are subject to high dust and water exposure, for example on construction machinery and utility vehicles.	Li	266	2	270	>185	Grease <b>DIN 51 825-KP 2 K-30</b>
<b>LUKOIL SIGNUM M283</b> Prod. no.: 589770	LUKOIL SIGNUM M283 is a lithium soap EP grease with mineral base stock. The product offers high wear protection and can be used for any application at temperatures from -30 to +140°C. Ideal for central lubrication systems in utility vehicles according to the manufacturer's instructions.	Li	220	2	270	>185	Grease <b>DIN 51 825-KP 2 N-30</b>  Approvals: <b>MAN 283 Li-P 2,</b> <b>MB-Approval 267.0</b>
<b>LUKOIL SIGNUM EPC 00</b> Prod. no.: 589780	LUKOIL SIGNUM EPC 00 is a lithium soap EP viscous grease with mineral base stock. The product offers good cold-flow properties and high wear protection and can be used for any application at temperatures from -30 to +140°C. Ideal for central lubrication systems in utility vehicles according to the manufacturer's instructions.	Li	50	00/000	430	>160	Grease <b>DIN 51 826-GP 00/000 K-30,</b> <b>Bielomatik</b> and <b>Lincoln</b> <b>MAN 283 Li-P 00/ 000,</b>  Approvals: <b>MB-Approval 264.0,</b> <b>Stiebel gear A2000,</b> <b>Willy Vogel AG</b>

▼ Greases based on Li complex soaps

Product name	Description, Guidelines for use	Soapbase	Base oil viscosity at 40° C in mm <sup>2</sup> /s	NLGI consistency	Penetration 1/10mm	Dropping point °C	Meets Requirements Quality Level, Approvals
<b>LUKOIL SIGNUM M284</b> Prod. no.: 589760	LUKOIL SIGNUM M284 is a lithium complex EP grease with mineral base stock. The product offers high wear protection and can be used for any application at temperatures from -30 to +160°C. Ideal for central lubrication systems in utility vehicles according to the manufacturer's instructions.	Li compl.	170	2	275	>250	Grease <b>DIN 51 825-KP 2 P-30</b>  Approvals: <b>MAN 284 Li-H 2</b> <b>MB-Approval 265.1</b>
<b>LUKOIL SIGNUM EPX 2</b> Prod. no.: 589574	LUKOIL SIGNUM EPX 2 is a lithium complex EP grease with mineral base stock. The product offers high wear protection and can be used for any application at temperatures from -30 to +160°C and up to +200°C for brief periods. Ideal for the long-term lubrication of heavy duty roller and plain bearings, for example in heater fans, electric motors, pumps, machinery, and vehicles according to the manufacturer's instructions.	Li compl.	140	2	275	>265	Grease <b>DIN 51 825-KP 2 P-30</b>
<b>LUKOIL SIGNUM EPX 00</b> Prod. no.: 589576	LUKOIL SIGNUM EPX 00 is a lithium complex EP viscous grease with mineral base stock. The product offers good cold-flow properties and high wear protection and can be used for any application at temperatures from -30 to +160°C. Ideal for central lubrication systems and the lubrication of grease-filled gearboxes according to the manufacturer's instructions.	Li compl.	145	00	410	>240	Grease <b>DIN 51 826-GP 00 P-30</b>

▼ Lubricating grease based on Ca soaps

Product name	Description, Guidelines for use	Soapbase	Base oil viscosity at 40°C in mm <sup>2</sup> /s	NLGI consistency	Penetration 1/10mm	Dropping point °C	Meets Requirements Quality Level, Approvals
<b>LUKOIL GREASE C 2</b> Prod. no.: 589750	LUKOIL GREASE C 2 is a calcium soap grease with mineral base stock. The product offers good water resistance and can be used at temperatures from -30 to +60°C. Ideal for lubricating machines, motor vehicles, and agricultural equipment according to the manufacturer's instructions.	Ca	68	2	270	>95	Grease DIN 51 825-K 2 C-30

▼ Grease specialities

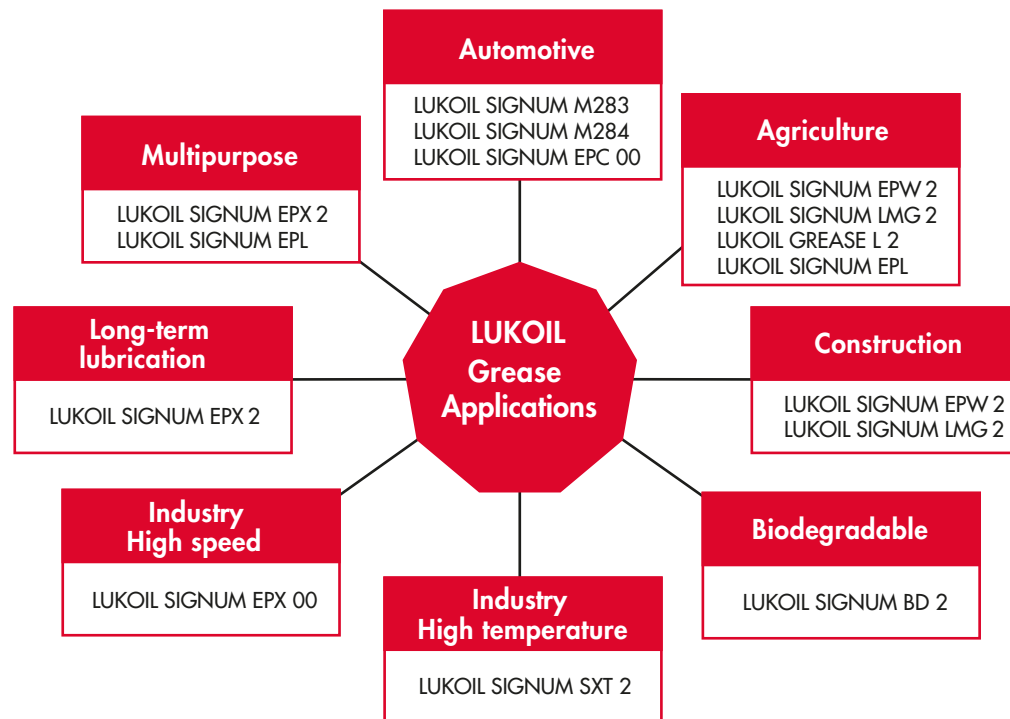
Product name	Description, Guidelines for use	Soapbase	Base oil viscosity at 40°C in mm <sup>2</sup> /s	NLGI consistency	Penetration 1/10mm	Dropping point °C	Meets Requirements Quality Level, Approvals
<b>LUKOIL ZMO-SPRAY</b> Prod. no.: 589030	LUKOIL ZMO-SPRAY is an adhesive spray gear lubricant developed especially for use on open parts. Formulated with high pressure additives and solid lubricants (MoS <sub>2</sub> ), the product offers reliable wear protection for parts exposed to high levels of dust and moisture. A dry protective film forms roughly 10 minutes after application (at 20°C ambient temperature), suitable for temperatures from -30 to +150°C.	Bitumen	–	–	–	–	DIN 51 513-BC



▼ Biodegradable greases

Product name	Description, Guidelines for use	Soapbase	Base oil viscosity at 40° C in mm <sup>2</sup> /s	NLGI consistency	Penetration 1/10mm	Dropping point °C	Meets Requirements Quality Level, Approvals
<b>LUKOIL SIGNUM BD 2</b> Prod. no.: 589502	LUKOIL SIGNUM BD 2 is a rapidly biodegradable lithium soap grease with synthetic base stock. The product offers high wear protection and can be used for any application at temperatures from -30 to +140°C. Ideal for the loss lubrication of components in environmentally sensitive areas according to the manufacturer's instructions.	Li	140	2	280	>190	Grease <b>DIN 51 825-KP E 2 N-30</b>

Application guideline for LUKOIL Greases



# INDUSTRIAL OILS AND GREASES

## TOTAL LOSS LUBRICATION

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Total loss lubricants, Saw guide oils	100



▼ Total loss lubricants, Chainsaw oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL BIOSEGAROL E 100</b> Prod. no.: 580481	LUKOIL BIOSEGAROLE 100 is a rapidly biodegradable, environmentally friendly chainsaw oil based on high quality canola oils. The product offers reliable wear protection and good adhesion.	70	15.4	>200	<-30	920	<b>ON C 2030</b>  Biodegradability after 21 days in accordance with <b>ON C 1158</b> : >90%
<b>LUKOIL CHAIN LIGHT</b> Prod. no.: 580427	LUKOIL CHAIN are perfect for lubricating chainsaws and the lubrication of sliding and guideways suitable for woodworking machines.	46	8.0	>215	<-39	872	Approval LUKOIL CHAIN HEAVY: <b>Thyssenkrupp</b>
<b>LUKOIL CHAIN MEDIUM</b> Prod. no.: 580428		68	8.6	>220	<-12	884	
<b>LUKOIL CHAIN HEAVY</b> Prod. no.: 580429		120	14.0	>220	<-21	884	
<b>LUKOIL BIOCHAIN LIGHT</b> Prod. no.: 580431	LUKOIL BIOCHAIN are biodegradable loss lubrication oils based on canola oil. The products offer good adhesion, reliable friction reduction, good wear protection, and a good yield. Ideal for use in loss lubrication systems in the wood and sawmill industry.	46		>220	<-36	898	
<b>LUKOIL BIOCHAIN MEDIUM</b> Prod. no.: 580432		68		>225	<-36	897	
<b>LUKOIL BIOCHAIN HEAVY</b> Prod. no.: 580433		100		>240	<-33	905	



▼ Total loss lubricants, Pneumatic oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL AIR S</b> Prod. no.: 578210	LUKOIL AIR S is a rapidly biodegradable fully synthetic pneumatic oil. It is ideal for use in air tools and equipment.	20	–	>245	<-21	1100	<b>DIN 51 502-CL PG22</b>
<b>LUKOIL AIR 100</b> Prod. no.: 575120	LUKOIL AIR 100 is a mineral pneumatic oil. The product offers good adhesion and therefore good wear protection and a high yield, effective corrosion protection, and good low-temperature characteristics. It is ideal for use in heavy duty percussion drills, rotating air tools, demolition hammers, chain and sliding rails on hydraulic drill jumbos and drilling rigs, and for lubricating guide rails on machine tools.	98	10.9	>250	<-12	883	<b>ISO 6743/11</b>

▼ Total loss lubricants, Saw guide oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL LUBE GF 100</b> Prod. no.: 580441	LUKOIL LUBE GF are highly ropy lubricating oils developed especially for use in the sawmill and wood industry. The products offer high wear protection, excellent adhesion, good corrosion protection and low viscosity temperature dependence. The selective additives prevent stick slip, even at low feed speeds, and thereby effectively prevent chipping and pitting. The high affinity of LUKOIL LUBE GF for metal surfaces ensures economic use. Ideal for slideways and guide rails, including for fast-running saw gates, gearboxes, and other lubrication points.	98	10.9	>225	<-9	886	In accordance with <b>DIN 51 502</b> , LUKOIL LUBE GF oils are classed as both <b>CLP</b> (high-pressure gear oils) and <b>CGLP</b> (slideway oils with ageing resistance and EP additive).  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: &gt;12</b>
<b>LUKOIL LUBE GF 150</b> Prod. no.: 580442		150	15	>230	<-9	890	
<b>LUKOIL LUBE GF 220</b> Prod. no.: 580443		220	18.7	>235	<-9	894	
<b>LUKOIL LUBE GF 320</b> Prod. no.: 580444		317	23.8	>235	<-9	901	
<b>LUKOIL LUBE GF 460</b> Prod. no.: 580445		455	30.4	>235	<-9	906	



# INDUSTRIAL OILS AND GREASES

## SPECIAL PRODUCTS

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# LUKOIL



CANNON  
PVT. INSTRUMENT CO. INC.

390  
754C

CANNON

151  
389

390  
750C

CANNON

390  
750C

3  
50

CANNON  
PVT. INSTRUMENT CO. INC.

450  
P198

▼ Form and release oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL LAYER ASPHALT</b> Prod. no.: 580506	LUKOIL LAYER ASPHALT is an innovative, rapidly biodegradable, emulsifiable release agent for asphalt work. Its high polarity prevents asphalt mix from sticking to lorry beds, asphaltting machinery, and rollers. Because it can be mixed with water, it is very economical.	36 (Conc.)	–	>225	<-18	923	
<b>LUKOIL LAYER BIO</b> Prod. no.: 580511	LUKOIL LAYER BIO is a highly effective, rapidly biodegradable canola oil-based release agent for concrete formwork. The high polarity provides for good adhesion, and its excellent release properties allow easy separation, especially for metal formwork. LUKOIL LAYER BIO provides a clean, largely pore-free fair concrete face and does not interfere with the adhesion of plaster, paint, or wallpaper. The thin achievable film thickness ensures sparing product use.	5.3	–	>100	<-15	865	
<b>LUKOIL LAYER BS3</b> Prod. no.: 580560	LUKOIL LAYER BS are release agents designed especially for the manufacture of aerated concrete blocks. The high film stability allows good separation and clean surfaces for concrete blocks and cast forms.	142	15.3	>255	<-9	888	
<b>LUKOIL LAYER BS4</b> Prod. no.: 580561	The products are not emulsifiable, highly viscous, economical to use, and offer excellent corrosion protection for casting forms.	165	15.1	>268	<-9	891	

## ▼ Form and release oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL LAYER CLASSIC</b> Prod. no.: 580521	LUKOIL LAYER CLASSIC is an additive release agent for fair faced concrete and prefabricated concrete parts, suitable for wood, plastic, and steel formwork. The thin, stable film ensures an optimal concrete surface and sparing product use.	11	–	>150	<-21	860	
<b>LUKOIL LAYER PROTECT</b> Prod. no.: 580516	LUKOIL LAYER PROTECT is a highly effective mixer protectant for dry and wet surfaces. The product offers excellent adhesion to concrete mixer drums and pumps and all accessories that come into contact with fresh cement. The concrete curing process is not negatively affected.	8.2	–	>130	<-57	869	

## ▼ Transformer oil

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL TRAF0 IEC II</b> Prod. no.: 552740	LUKOIL TRAF0 IEC II is an inhibited insulating oil with a low dielectric loss factor and a high disruptive voltage. The excellent low-temperature properties allow good convection and reliable heat transfer, even at low application temperatures. LUKOIL TRAF0 IEC II protects against sediment and acid formation, has no effect on insulating materials, and ensures short-circuit resistance and exceptional ageing stability over long operating periods.	9.3	–	>145	<-48	870	USA: <b>ASTM D 3487</b> , CR: <b>CSN 656845</b> , H: <b>MSZ 153/3</b> , International: <b>IEC 60296</b> , A: <b>ÖVE/ÖNORM EN 60296</b> , DE: <b>DIN EN 60296/VDE 0370-1</b> , GB: <b>BS 148</b>



▼ Circulating oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL ROUND 10</b> Prod. no.: 573060	LUKOIL ROUND are high quality universal mineral oils and were developed for applications including higher operating temperatures. The products offer excellent ageing resistance, do not affect seals, and have good air and water release and reliable wear and corrosion protection. LUKOIL ROUND are ideal as lubricating oils for hydraulic and circulation lubrication systems, turbo fans, rotary compressors, plain and roller bearings, and gearboxes that are subject to moderate loads according to the manufacturer's instructions.	10	2.8	>135	<-36	843	<b>DIN 51 506-VB/ -VBL,</b> <b>DIN 51 517-CL,</b> <b>DIN 51 524-HL,</b> <b>VDMA 24 318-HL,</b> <b>SEB 181 222</b>  For screw compressors LUKOIL ROUND 32 corresponds to and 46, <b>ISO/DIS 6521-L-DAA</b> and <b>ISO-L-DAB</b>  Failure load stage <b>DIN ISO 14635-1 A/8,3/90-M: 9</b>
<b>LUKOIL ROUND 22</b> Prod. no.: 573065		22	4.3	>190	<-33	865	
<b>LUKOIL ROUND 32</b> Prod. no.: 573070		32	5.3	>205	<-18	874	
<b>LUKOIL ROUND 46</b> Prod. no.: 573075		46	6.9	>215	<-15	874	
<b>LUKOIL ROUND 68</b> Prod. no.: 573080		68	8.9	>220	<-12	879	
<b>LUKOIL ROUND 100</b> Prod. no.: 573085		100	11.4	>245	<-12	884	
<b>LUKOIL ROUND 150</b> Prod. no.: 573090		150	14.4	>250	<-9	889	
<b>LUKOIL ROUND 220</b> Prod. no.: 573095		220	18.8	>250	<-9	894	
<b>LUKOIL ROUND 320</b> Prod. no.: 573100		320	24.6	>250	<-9	894	
<b>LUKOIL ROUND 460</b> Prod. no.: 573105	460	29.1	>255	<-9	904		



▼ Circulating oils

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL INTEGO 320</b> Prod. no.: 572355  <b>LUKOIL INTEGO 460</b> Prod. no.: 572350	LUKOIL INTEGO are high quality mineral lubricating oils that were developed especially for use with Morgoil® bearings. The products offer excellent ageing resistance, low foaming, good air and water release, and reliable wear and corrosion protection.  LUKOIL INTEGO are ideal as lubricating oils for hydraulic and circulation ubrication systems, plain and roller bearings, and gearboxes that are subject to moderate loads according to the manufacturer's instructions.	320	23.1	>250	<-9	899	Lubricating oils: <b>DIN 51 517-CL,</b> <b>DIN 51 501-L-AN,</b> <b>DIN 51 502-H</b>
<b>LUKOIL LUBE P 15</b> Prod. no.: 573002  <b>LUKOIL LUBE P 32</b> Prod. no.: 573004  <b>LUKOIL LUBE P 46</b> Prod. no.: 573005  <b>LUKOIL LUBE P 68</b> Prod. no.: 573008  <b>LUKOIL LUBE P 100</b> Prod. no.: 573010  <b>LUKOIL LUBE P 150</b> Prod. no.: 573020  <b>LUKOIL LUBE P 220</b> Prod. no.: 573040  <b>LUKOIL LUBE P 320</b> Prod. no.: 573045  <b>LUKOIL LUBE P 460</b> Prod. no.: 573050	LUKOIL LUBE P are high quality unblended universal mineral oils. The products offer good ageing resistance, do not affect seals, and have good air and water release and good viscosity temperature characteristics.  LUKOIL LUBE P are ideal as lubricating oils for hydraulic, loss, and circulation lubrication systems, plain and roller bearings, and gearboxes that are subject to low loads according to the manufacturer's instructions.	15	3.4	>190	<-15	840	
		32	5.5	>220	<-12	868	
		46	6.5	>220	<-12	874	
		68	8.6	>235	<-12	880	
		100	11.0	>250	<-12	883	
		150	14.5	>250	<-12	890	
		220	18.7	>260	<-12	896	
		320	24.5	>280	<-9	900	
		460	31.6	>300	<-9	904	

▼ Heat transfer fluids

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL THERMO 32</b> Prod. no.: 571620	LUKOIL THERMO 32 is a mineral heat transfer oil. The product has a low vapour pressure (high boiling point) at standard atmospheric pressure and high thermal stability, which provides for long replacement intervals in closed and open circulation systems, even with high inlet temperatures. Ideal for industrial heat transfer systems and heating containers for highly viscous materials, for example in road construction.	34	5.7	>220	<-33	875	Heat transfer fluid <b>DIN 51 522-Q</b>
<b>LUKOIL THERMOCLEAN</b> Prod. no.: 571655	LUKOIL THERMOCLEAN is a cleaning additive for heat transfer systems. A system technician must be consulted before use!	–	–	>160	–	1050	

▼ White oils, medical-grade

Product name	Description, Guidelines for use	Viscosity at 40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Flash point °C	Pour-point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals
<b>LUKOIL WHITE 15</b> Prod. no.: 579085	LUKOIL WHITE are highly refined, aromatic compound-free, medical white oils for applications in the pharmaceuticals and food industry. The products are suitable for applications with direct food contact (FDA approval).	15	3.4	205	<-21	856	<b>DAB 10,</b> <b>FDA 178.3570,</b> <b>Ph. Eur. 1990,</b> <b>USP XXII</b>
<b>LUKOIL WHITE 32</b> Prod. no.: 579087		32	5.6	>200	<-18	857	
<b>LUKOIL WHITE 46</b> Prod. no.: 579089		46	6.7	>195	<-18	861	
<b>LUKOIL WHITE 68</b> Prod. no.: 579090		68	8.5	>220	<-15	870	

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**LUKOIL GENESIS**

DEVELOPED INTERNATIONALLY – REFINED IN AUSTRIA

