

# PRODUCT CATALOGUE

AUTOMOTIVE LUBRICANTS, INDUSTRIAL OILS AND GREASES



<b>M</b>		<b>S</b>		<b>S</b>		<b>T</b>	
MIXADD AF	81	SIGNUM AX 1	87	STEELO HST 460	61	TRANSMISSION C 80W-140	30
MIXADD DH	80	SIGNUM BD 2	92	STEELO HST 680	61	TRANSMISSION C 85W-140	30
MIXADD EM	81	SIGNUM EPC 00	89	STEELO HST 1000	61	TRANSMISSION LDI 75W-80	27
MIXADD YM	81	SIGNUM EPL 1	88	STEELO HST 2200	61	TRANSMISSION LS 85W-90	29
MIXCUT AL	79	SIGNUM EPL 2	88	STEELO PG 220	62	TRANSMISSION MP 80W-85	27
MIXCUT GR	79	SIGNUM EPL 3	88	STEELO PG 460	62	TRANSMISSION MP 85W-90	27
MIXCUT GR PREMIUM	79	SIGNUM EPW 2	89	STEELO S 68	62	TRANSMISSION SLY 75W-90	27
MIXCUT SE	80	SIGNUM EPX 2	90	STEELO S 100	62	TRANSMISSION SYNTH BSV 75W-90	28
MIXCUT UN	79	SIGNUM EPX 00	90	STEELO S 220	62	TRANSMISSION SYNTH BSX 75W-90	28
MIXCUT UN PREMIUM	79	SIGNUM LMG 2	88	STEELO S 320	62	TRANSMISSION SYNTH MPX 75W-80	27
MOTO 2T SYNTH	23	SIGNUM M283	89	SUPERDRAW E 70	83	TRANSMISSION SYNTH MPX 75W-90	27
MOTO 4T	23	SIGNUM M284	90	SUPERGRIND 7	82	TRANSMISSION UNI 80W-90	29
MOTO 4T GARDEN 30	22	SIGNUM SXT 2	87	SUPERGRIND 18	82	TRANSMISSION UNI S 75W-90	29
MOTO 4T SYNTH	23	SLIDO 68	84			TRANSMISSION UNI S 75W-140	29
		SLIDO 220	84	<b>T</b>		TRANSMISSION V 80W-90	28
		SLIDO 320	84	THERMO 32	105	TROYSHIELD SC1	80
<b>P</b>		SLIDO 460	84	THERMOCLEAN	105		
PENTOSIN SUPER DOT 4	40	STABIO D 46	71	TORNADO 32	69	<b>V</b>	
PENTOSIN SUPER DOT 5.1	40	STABIO D 68	71	TORNADO 46	69	VERSO HGN	36
		STABIO S 32	72	TORNADO 68	69	VERSO LVX	37
		STABIO S 46	72	TORNADO AQUA 78	70	VERSO MOTOR 10W-40	35
<b>R</b>		STABIO S 68	72	TORNADO AQUA 100	70	VERSO MOTOR 15W-30	36
ROLL ST8	84	STABIO S 100	72	TORNADO EP 32	69	VERSO NPS	37
ROLL ST8-2TM	84	STABIO VDL 46	71	TORNADO EP 46	69	VERSO STE	37
ROUND 10	103	STABIO VDL 68	71	TORNADO EP 68	69		
ROUND 22	103	STABIO VDL 100	71	TORNADO S 32	67	<b>W</b>	
ROUND 32	103	STABIO VDL 150	71	TORNADO S 46	67	WHITE 15	106
ROUND 46	103	STEELO BIO S 150	63	TORNADO SEP 32	67	WHITE 32	106
ROUND 68	103	STEELO BIO S 220	63	TORNADO SEP 46	67	WHITE 46	106
ROUND 100	103	STEELO HST 68	61	TORNADO SNH 32	67	WHITE 68	106
ROUND 150	103	STEELO HST 100	61	TORNADO SNH 46	67		
ROUND 220	103	STEELO HST 150	61	TRAFO IEC II	102	<b>Z</b>	
ROUND 320	103	STEELO HST 220	61	TRANSMISSION B 80W-90	28	ZMO-SPRAY	91
ROUND 460	103	STEELO HST 320	61	TRANSMISSION B 85W-90	28		

! Considering continuous improvement process of product formulations which is highly influencing technical specifications (approvals and meets requirements), please always check TDS for latest version of specifications!





#### **LUKOIL TRANSMISSION**

Fully synthetic gear oils developed for highly loaded gearboxes



#### **LUKOIL ATF**

Our range of transmission fluids covers your needs

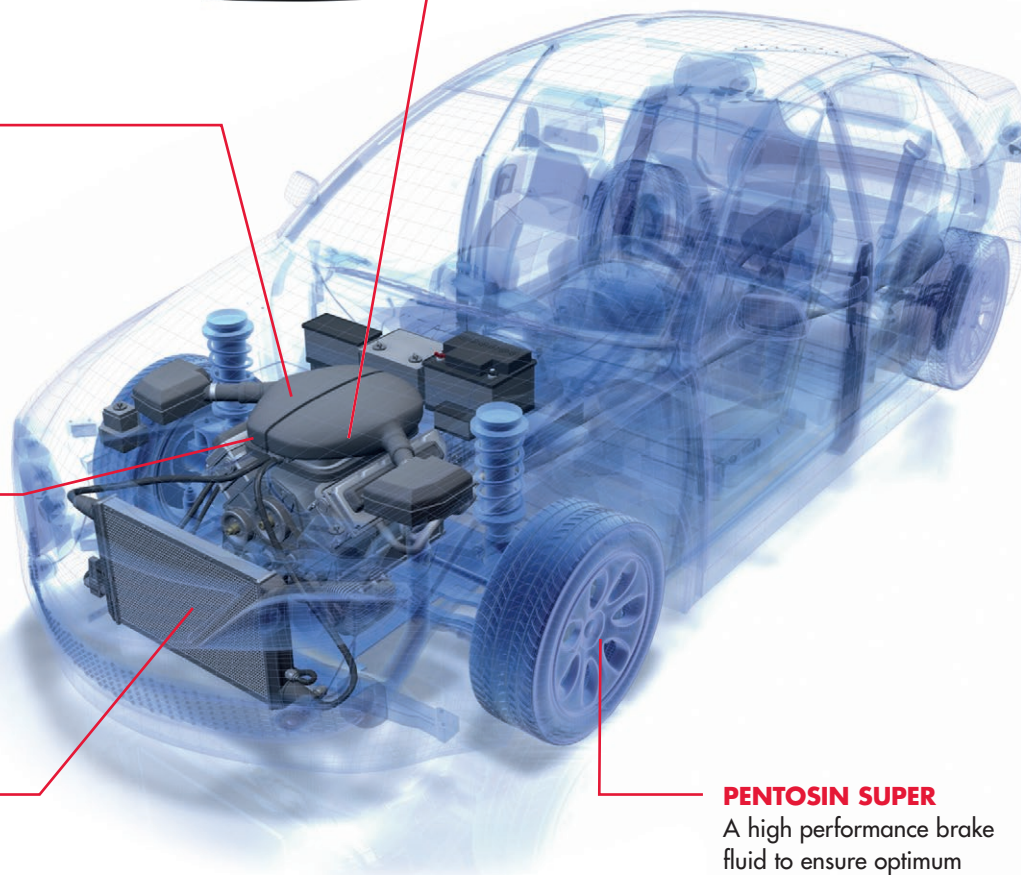
#### **LUKOIL COOLANT**

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



#### **LUKOIL GENESIS SPECIAL**

Your car deserves the best motor oil.



#### **PENTOSIN SUPER**

A high performance brake fluid to ensure optimum reliability and safe



# AUTOMOTIVE LUBRICANTS

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# LUKOIL

**LUKOIL**  
LUBRICANTS



RIDE  
WITH  
PRIDE




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

LUKOIL  
**GENESIS**  
MOTOR OIL



▼ 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	Type of pack
<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	ACEA C3 MB 229.31 Fiat 9.55535 S3	BMW LL-04 MB-Approval 229.51 VW 504 00/507 00 PORSCHE C30	1l 4l 5l 20l 60l 205l 1000l
<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	ACEA C1/C2, Jaguar Land Rover STJLR.03.5005		1l 4l 5l 20l 60l 205l 1000l
<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	ACEA C2, PSA B71 2312		1l 4l 5l 20l 60l 205l 1000l
<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	ACEA A1/B1, A5/B5 ACEA C2 API CF/SN Fiat 9.55535 - S1/S3 Iveco 18 - 1811 SC1 PSA B71 2290 Renault RN 0700		1l 4l 5l 20l 60l 205l 1000l





▼ 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	Type of pack
<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	ACEA C2/C3 API CF Fiat 9.55535 - S3 MB 226.5/229.31 PSA B71 2290	API SN BMW LL - 04 GM dexos2™ - licensed D20271HC072 MB - Approval 229.51 MB - Approval 229.52 Renault RN 0700/0710	1l 4l 5l 20l 60l 205l 1000l
<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 advanced additive technology allows maximum service intervals, is easy on the environment and reliably protects the engine and particulate filter.	74.35	13.2	850	Ford WSS-M2C-917-A ACEA C3 API CF Fiat 9.55535 S2 MB 229.31, 226.5	API SN BMW LL - 04 MB - approval 229.51 Porsche A40 Renault RN 0700/0710 VW 502 00/505 00/505 01	1l 4l 5l 20l 60l 205l 1000l
<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	ACEA C4	MB - APPROVAL 226.51 MB - APPROVAL 229.51 RENAULT RN 0720	1l 4l 5l 20l 60l 205l 1000l
<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	ACEA A5/B5, A1/B1 API CF Fiat 9.55535 G1 Ford WSS - M2C913 - A/ B /C Iveco 18 - 1811 S1	API SL Ford WSS - M2C913 - D Renault RN 0700 Jaguar Land Rover STJLR.03.5003	1l 4l 5l 20l 60l 205l 1000l









▼ 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	Type of pack
<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	ACEA A1/B1, FIAT 9.55535 DSX	VOLVO VCC RBS0-2AE	1l 4l 5l 20l 60l 205l 1000l
<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	ACEA A5/B5, A1/B1, API SL, RENAULT RN 0700	VOLVO 95200377	1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL GENESIS SPECIAL FD 0W-30</b> Prod. no.: 563116	LUKOIL GENESIS SPECIAL FD 0W-30 is a newly developed synthetic "Fuel Efficiency" diesel engine oil, especially for FORD TDCi Duratorq Euro 6 engines. The latest additive technology of LUKOIL GENESIS SPECIAL FD 0W-30 guarantees a high keep clean effect of the engine, reduces friction in the engine and provides therefore fuel efficiency, optimal energy saving and lifetime.	45.3	9.5	839	ACEA C2 Fiat 9.55535 - GS1/DS1 Ford WSS M2C - 950 - A		1l 4l 5l 20l 60l 205l 1000l
<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	ACEA A1/ B1 ILSAC GF - 5 Ford WSS M2C - 948 - A Fiat 9.55535 - CR1	API SN/ SN - RC FORD WSS M2C - 948 - B Jaguar Land Rover STJLR.03.5004	1l 4l 5l 20l 60l 205l 1000l
<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	1l 4l 5l 20l 60l 205l 1000l

▼ 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	Type of pack
<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	API SN		1l 4l 5l 20l 60l 205l 1000l
<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/B4, A3/B3 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 MB-Approval 229.5 PORSCHE A40 RENAULT RN 0700/0710 VW 502 00/505 00	1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL GENESIS ADVANCED 5W-40</b> Prod. no.: 563041	LUKOIL GENESIS ADVANCED 5W-40 is a semi synthetic multigrade engine oil for today's gasoline and diesel engines without diesel particulate filter. It permits severe operating and traffic conditions and thereby guarantees full reliability. LUKOIL GENESIS ADVANCED 5W-40 winter viscosity reduces friction during cold operation.	76	13.1	852	ACEA A3/B4, A3/B3 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	1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL GENESIS ADVANCED 10W-40</b> Prod. no.: 563040	LUKOIL GENESIS ADVANCED 10W-40 is a semisynthetic fuel economy motor oil for cars with petrol engines and diesel engines without particulate filters.	80.7	13.1	858	ACEA A3/B3 ACEA A3/B4 API CF Fiat 9.55535-G2 Opel GM-LL-A-025 Opel GM-LL-B-025 PSA B71 2294 PSA B71 2300 VW 502.00/505.00	API SN MB-Approval 229.3	1l 4l 5l 20l 60l 205l 1000l



	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.
► <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.
		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, fact 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</sup>	LUKOIL GENESIS SPECIAL C3 5W-40 <sup>2</sup>
Audi	LUKOIL GENESIS SPECIAL VN 5W-30	LUKOIL GENESIS SPECIAL VN 5W-30
BMW	LUKOIL GENESIS SPECIAL C3 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30
Chevrolet/Daewoo	LUKOIL GENESIS SPECIAL C3 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30
Chrysler/Jeep	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30 <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</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
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
Mini	LUKOIL GENESIS SPECIAL C3 5W-40	LUKOIL GENESIS SPECIAL C3 5W-40
Mitsubishi****	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>2</sup>
Nissan	LUKOIL GENESIS SPECIAL A5/B5 5W-30	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
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
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</sup>
Skoda	LUKOIL GENESIS SPECIAL VN 5W-30	LUKOIL GENESIS SPECIAL VN 5W-30 <sup>4</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>5, 6</sup>
Suzuki*	LUKOIL GENESIS SPECIAL 5W-40	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>5, 6</sup>
Toyota*	LUKOIL GENESIS SPECIAL A5/B5 5W-30	LUKOIL GENESIS SPECIAL C3 5W-30 <sup>2, 6</sup>
VW	LUKOIL GENESIS SPECIAL VN 5W-30	LUKOIL GENESIS SPECIAL VN 5W-30 <sup>4</sup>
Volvo***	LUKOIL GENESIS SPECIAL A5/B5 0W-30	LUKOIL GENESIS SPECIAL A5/B5 0W-30 <sup>4</sup>

Further information for additional car brands are available under the LUKOIL Oilfinder

[www.lukoil-lubricants.eu](http://www.lukoil-lubricants.eu)

or [technical.support@lukoil-lubricants.ro](mailto:technical.support@lukoil-lubricants.ro)



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> LUKOIL GENESIS SPECIAL 5W-40

for models built before 2000

<sup>4)</sup> by regulation ACEA C3:

LUKOIL GENESIS SPECIAL C3 5W-30 or 5W-40

(Ford WSS M2C-917-A, Fiat 9.55535 S2, VW 502 00)

<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 PS 0W-30

<sup>7)</sup> by regulation FORD WSS M2C-950A (Euro 6):

LUKOIL GENESIS SPECIAL FD 0W-30

(also suitable where Fiat 9.55535-GS1

and DS-1 is required)

\* API SM/SN, SAE 0W-20: Recommendations

by Honda, Mazda, Suzuki, Subaru, Toyota:

LUKOIL GENESIS SPECIAL FE 0W-20

\*\* Ford EcoBoost-Motoren: Recommendation

LUKOIL GENESIS SPECIAL FD 5W-20

\*\*\* Volvo VCC RBS0-2AE (ACEA C2) 0W-20:

Recommendation LUKOIL GENESIS SPECIAL VL 0W-20

\*\*\*\* Mitsubishi with VW Motor: Recommendation

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.



# 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	Type of pack
<b>LUKOIL LUXE SYNTHETIC 5W-30</b> Prod. no.: 568107	LUKOIL LUXE SYNTHETIC 5W-30 is a synthetic multigrade engine oil for modern high demand 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	ACEA A1/B1, A5/B5 API CF Fiat 9.55535-G1 Ford WSS-M2C-913-A, B, C, D	API SL AVTOVAZ Renault RN 0700	1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL LUXE SYNTHETIC 5W-40</b> Prod. no.: 568108	LUKOIL LUXE SYNTHETIC 5W-40 is synthetic multi-grade 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	ACEA A3/B3, A3/B4 API CF Fiat 9.55535-N2 Fiat 9.55535-Z2 PSA B71 2296 MB 226.5	API SN AVTOVAZ MB 229.5 Renault RN 0700/0710 VW 502.00/505.00	1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL LUXE VN 5W-30</b> Prod. no.: 568112	LUKOIL LUXE VN 5W-30 is a synthetic, fuel economy, low ash engine oil perfectly suitable for engines especially with particulate filter or unit-injector system. The new midSAPS technology protects the environment as well as the particulate filter because of the low content of sulphated ash, phosphor and sulphur.	64.9	11.4	848	ACEA C3, BMW LL-04, MB 229.51, 229.31, PORSCHE C30, VW 504 00/507 00		1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL LUXE C3 5W-30</b> Prod. no.: 568111	LUKOIL LUXE C3 5W-30 is a low-ash, synthetic engine oil for up-to-date gasoline and diesel engines with particulate filter. The new midSAPS technology protects the environment as well as the particulate filter because of the low content of sulphated ash, phosphor and sulphur.	66.4	11.5	846	ACEA C3, API SN/CF, BMW LL-04, MB 229.31, 229.51, 226.5, RENAULT RN 0700/0710		1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL LUXE C3 5W-40</b> Prod. no.: 568110	LUKOIL LUXE C3 5W-40 is a low-ash, synthetic engine oil for up-to-date gasoline and diesel engines with particulate filter. The new midSAPS technology protects the environment as well as the particulate filter because of the low content of sulphated ash, phosphor and sulphur.	76.2	13.5	845	ACEA C3, API SN/CF, BMW LL-04, MB 229.31, 229.51, 226.5, PORSCHE A40, RENAULT RN 0700/0710		1l 4l 5l 20l 60l 205l 1000l

▼ 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	Type of pack
<b>LUKOIL LUXE A3/B4 10W-40</b> Prod. no.: 568109	LUKOIL LUXE A3/B4 10W-40 is an semi- synthetic multigrade engine oil for today's gasoline and diesel engines without diesel particular filter. LUKOIL LUXE A3/B4 10W-40 is qualified for turbo-charged engines and catalytic converters and provide high reserves in performance within the recommended oil drain interval.	75.4	12.7	856	ACEA A3/B3 ACEA A3/B4 API CF API SN Fiat 9.55535-G2 MB 229.3 Opel GM-LL-A-025 Opel GM-LL-B-025 PSA B71 2294/2300 Renault RN 0700/0710 VW 502.00/505.00		1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL LUXE 10W-40</b> Prod. no.: 568113	LUKOIL LUXE 10W-40 is an semi- synthetic multigrade engine oil for year-round operation of passenger cars with gasoline and diesel engines.	93.5	13.9	871	API CF	API SL AVTOVAZ OJSC „UMZ“	1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL LUXE 15W-40</b> Prod. no.: 568114	LUKOIL LUXE 15W-40 is a universal multigrade engine oil based on high-quality mineral base stocks and advanced additive technology.	104.5	14	882	API SL/CF	AVTOVAZ	1l 4l 5l 20l 60l 205l 1000l
<b>LUKOIL LUXE 20W-50</b> Prod. no.: 568115	LUKOIL LUXE 20W-50 is a universal multigrade engine oil based on high-quality mineral base stocks and an efficient additive package.	168.6	18.5	887	API SL/CF	AVTOVAZ OJSC „ZMZ“	1l 4l 5l 20l 60l 205l 1000l

▼ 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	Type of pack
<b>LUKOIL AVANTGARDE PROFESSIONAL LE 5W-30</b> Prod. no.: 568359	LUKOIL AVANTGARDE PROFESSIONAL LE 5W-30 is a low-SAPS (sulphated ash, phosphorus & sulphur), synthetic Super Ultra High Performance-Diesel Motor Oil (SUHPD) for modern truck engines, especially for vehicles with Diesel Particulate Filter (DPF) and/or EGR/SCR technology.	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	CJ-4, DEUTZ DQC IV-10 LA MACK EO-O PREMIUM PLUS MAN M 3271-1/ 3477 MAN M 3575/ 3677 MB-Approval 228.31/ 228.51 MTU Oil Category 3.1 RENAULT VI RLD-3 SCANIA LA/ LDF - 4 VOLVO VDS-4	4l 5l 20l 60l 205l 1000l
<b>LUKOIL AVANTGARDE PROFESSIONAL LS 10W-40</b> Prod. no.: 568366	LUKOIL AVANTGARDE PROFESSIONAL LS 10W-40 is a low-SAPS (sulphated ash, phosphorus & sulphur), synthetic Super Ultra High Performance-Motor Oil (SUHPD) for modern truck engines, especially for vehicles with Diesel Particulate Filter (DPF) and/or EGR/SCR technology.	95	14.7	855	ACEA E6/E7 API CI - 4 Cummins CES 20077/76 DAF Jaso DH - 2 MB 228.31 Renault VI RXD/ RGD ZF TE-ML 03A/05K/07D/21K	Deutz DQC III -10 LA 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	4l 5l 20l 60l 205l 1000l
<b>LUKOIL AVANTGARDE PROFESSIONAL LA 10W-40</b> Prod. no.: 568357	LUKOIL AVANTGARDE PROFESSIONAL LA 10W-40 is a synthetic low ash utility vehicle oil for extremely stringent emissions limits. The innovative formula was developed especially for EURO V and EURO VI utility vehicle engines with AGR, SCR, and particulate filters. Also compatible with EURO O, I, II, III, and IV engines according to the manufacturer's instructions.	92	13.8	861	ACEA E9 API SN/SM Caterpillar ECF-3/ECF-2/ECF-1-a Detroit Diesel DDC 93K218 ZF TE-ML 04P/05K/07D/21K	API CJ-4 CUMMINS CES 20081 DEUTZ DQC III-10-LA MACK EO-O Premium Plus MAN M 3575 MB-Approval 228.31 MTU Oil Category 2.1 RENAULT VI RLD-3 VOLVO VDS-4	4l 5l 20l 60l 205l 1000l



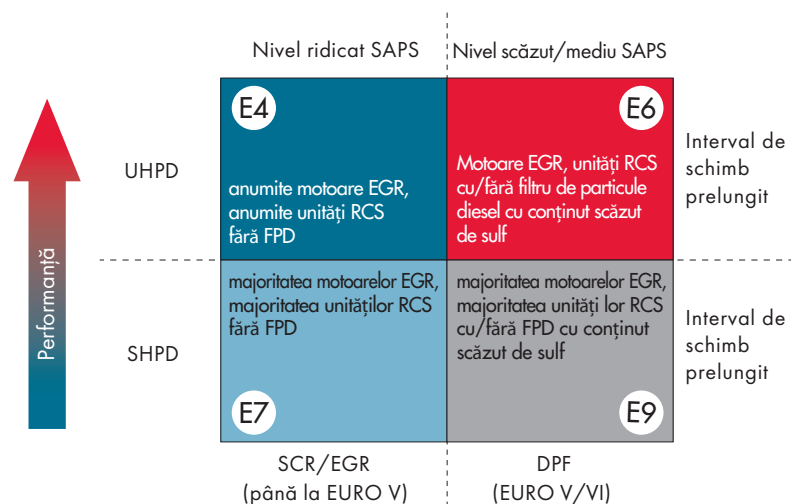
## ▼ Engine oils for commercial vehicles

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	Type of pack
<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 and EURO VI utility vehicle engines with AGR, SCR, and particulate filters. Also compatible with EURO 0, I, II, III, and IV engines according to the manufacturer's instructions.	85	12.0	862	ACEA E9 API SM Caterpillar ECF-3/ECF-2/ECF-1-a Cummins CES 20081 ZF TE-ML 05K/ 07D/21K	API CJ-4/SN DEUTZ DQC III-10 LA MAN M 3575 MACK EO-O Premium Plus MB-Approval 228.31 MTU Oil Category 2.1 RENAULT VI RLD-3, VOLVO VDS-4	4l 5l 20l 60l 205l 1000l
<b>LUKOIL AVANTGARDE PROFESSIONAL LA 15W-40</b> Prod. no.: 568358	LUKOIL AVANTGARDE PROFESSIONAL LA 15W-40 is a low-ash engine oil for heavy duty latest generation engines especially for trucks with particle filters and/or SCR technology.	106	15.2	869	ACEA E9 API SM CATERPILLAR ECF-3 DEUTZ DQC III-10 LA ZF TE-ML 04P/07D	API CJ-4/SN CUMMINS CES 20081 MACK EO-O Premium Plus MAN M 3575 MB-Approval 228.31 MTU Oil Category 2.1 RENAULT VI RLD-3 VOLVO VDS-4	4l 5l 20l 60l 205l 1000l
<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.	74	12.1	854	ACEA E4 ACEA E7 Cummins CES 20077 DAF Iveco T18-804 Classe TFE Renault RXD Renault VI RLD	DEUTZ DQC IV-10 FORD WSS-M2C212-A1 MACK EO-N MAN M 3277 MB 228.5 MTU TYPE 3 RENAULT VI RLD-2 SCANIA LDF-3 VOLVO VDS-3	4l 5l 20l 60l 205l 1000l
<b>LUKOIL AVANTGARDE PROFESSIONAL 10W-40</b> Prod. no.: 568352	LUKOIL AVANTGARDE PROFESSIONAL 10W-40 is a synthetic ultra high-performance diesel motor oil (UHPD) and was designed especially for modern, low-emission (including SCR) diesel engines in utility vehicles and maximum service intervals, especially for Scania utility vehicles. Through the use of state-of-the-art base stock and additive technologies, it guarantees a clean engine and maximum service intervals.	98	14.4	867	ACEA E4 ACEA E7 CATERPILLAR ECF-2 CUMMINS CES 20078 FORD WSS-M2C944-A JASO DH-1	API CI-4 DEUTZ DQC IV-10 MACK EO-N MAN M 3277 MAN M 3377 MB 228.5 MTU TYPE 3 RENAULT VI RLD-2 VOLVO VDS-3	4l 5l 20l 60l 205l 1000l

▼ 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	Type of pack
<b>LUKOIL AVANTGARDE PROFESSIONAL M5 10W-40</b> Prod. no.: 568363	LUKOIL AVANTGARDE PROFESSIONAL M5 10W-40 is the oil for diesel engines operating under severe conditions and / or extended drain intervals designed according to requirements of the world leading OEMs specifications.	98	15.1	873.5	ACEA E4 ACEA E7-12 ZF-TE-ML 03A ZF-TE-ML 05K ZF-TE-ML 07D ZF-TE-ML 21K	API CI-4 Cummins CES 20078 Deutz DQC III-10 MAN M 3277 MB 228.5 MTU TYPE 3	4l 5l 20l 60l 205l 1000l
<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.	93	13.8	862	ACEA E7 Caterpillar ECF-2; ECF-1-a Cummins CES 20077/20076 Global DHD-1 Mack EO-M Plus Renault VI RLD ZF-TE-ML 03A, 05K, 07D, 21K ACEA E4, E7 API CF	API CI-4 API SL Cummins CES 20078 Deutz DQC III-10 Mack EO-N MAN M 3275-1 MB 228.3 MTU Type 2 Renault VI RLD-2 VOLVO VDS-3	4l 5l 20l 60l 205l 1000l
<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.	109	15.1	876	ACEA E7 Caterpillar ECF-1-a Caterpillar ECF-2 Cummins CES 20071 Cummins CES 20072 Cummins CES 20076 Cummins CES 20077 Detroit Diesel DFS 93K215 Mack EO-M Plus ZF-TE ML 04P ZF-TE-ML 03A ZF-TE-ML 07D	API CI-4/SL Cummins CES 20078 Deutz DQC III-10 Mack EO-N MAN M 3275-1 MB 228.3 MTU Type 2 Renault VI RLD-2 VOLVO VDS-3 OJSC „Avtodizel (YaMZ)” OJSC „TMP” PJSC «KAMAZ»	4l 5l 20l 60l 205l 1000l

## Heavy Duty Specification Overview

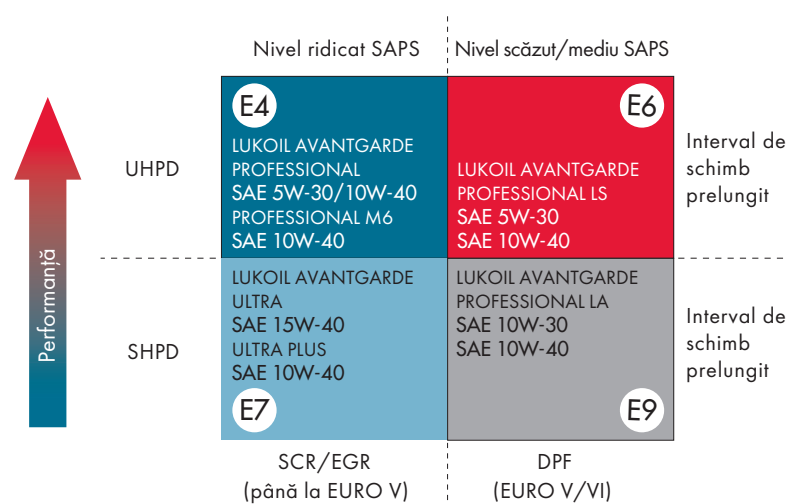


UHPD: Ultra High Performance Diesel engine oil

SHPD: Super High Performance Diesel engine oil

EGR: Exhaust Gas Recirculation

## LUKOIL Heavy Duty Top Range



SCR: Selective Catalytic Reduction with AdBlue to reduce NOx emissions

DPF: Diesel Particulate Filter to reduce particle emissions



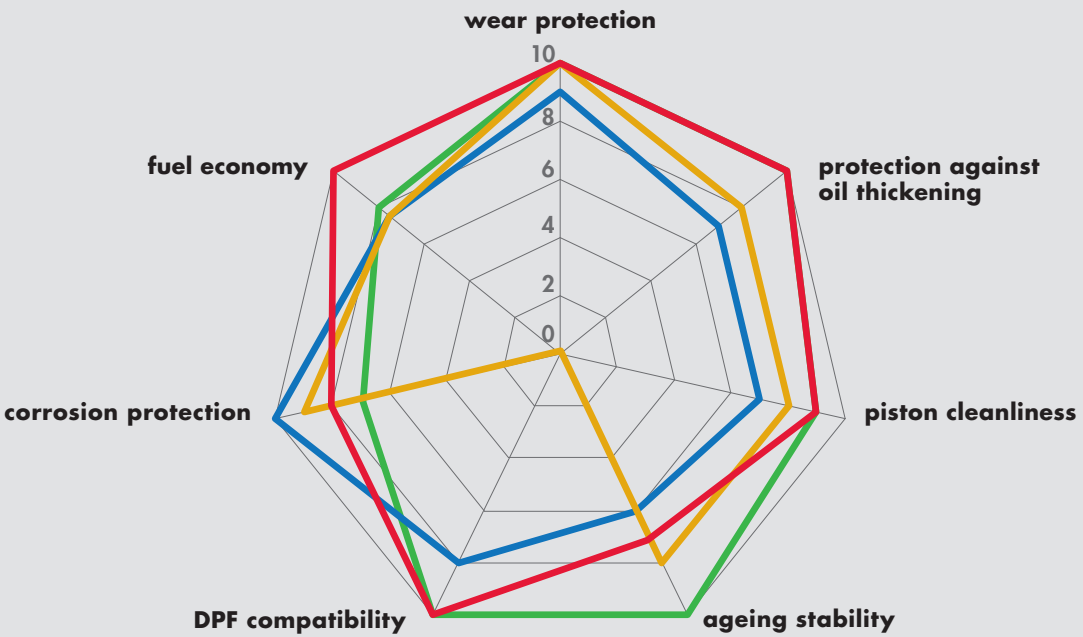
Further information for additional car brands are available under the LUKOIL Oilfinder [www.lukoil-lubricants.eu](http://www.lukoil-lubricants.eu) or [technical.support@lukoil-lubricants.ro](mailto:technical.support@lukoil-lubricants.ro)

## ▼ WHICH MOTOR OIL DO YOU NEED?

PRODUCT	LUKOIL AVANTGARDE PROFESSIONAL		LUKOIL AVANTGARDE PROFESSIONAL M5	LUKOIL AVANTGARDE PROFESSIONAL LA			LUKOIL AVANTGARDE PROFESSIONAL LE	LUKOIL AVANTGARDE PROFESSIONAL LS5	LUKOIL AVANTGARDE ULTRA PLUS	LUKOIL AVANTGARDE ULTRA
SAE	5W-30	10W-40	10W-40	10W-30	10W-40	15W-40	5W-30	10W-40	10W-40	15W-40
ACEA	E4/E7	E4/E7	E4	E9	E9	E9	E4/E6/E7/E9	E6/E7	E7	E7
API	CF	CI-4	CI-4	CJ-4/SN	CJ-4, SN	CJ-4/SN	CJ-4	CI-4	CI-4/SL	CI-4/SL
CAT	-	ECF-2	-	ECF-3, ECF-2, ECF-1a	ECF-3, ECF-2, ECF-1a	ECF-3	ECF-3	-	ECF-2, ECF-1a	ECF-2, ECF-1a
CUMMINS	CES 20077	CES 20078	CES 20078	CES 20081	CES 20081	CES 20081	CES 20081	CES 20077/76	CES 20078/77/76	CES 20078
DAF	Extended Drain	-	-	-	-	-	-	-	-	-
DEUTZ	DQC IV-10	DQC IV-10	DQC III-10	DQC III-10 LA	DQC III-10 LA	DQC III-10 LA	DQC IV-10 LA	DQC III-10 LA	DQC III-10	DQC III-10
FORD	WSS-M2C 212-A1	-	-	-	-	-	-	-	-	-
IVECO	IVECO	-	-	-	-	-	-	-	-	-
JASO	-	DH-1	-	-	-	-	-	JASO DH-2	-	-
MACK	EO-N	EO-N	-	EO-O Premium Plus	EO-O Premium Plus	EO-O Premium Plus	EO-O Premium Plus	EO-N	EO-N	EO-N
MAN	M 3277	M 3277/3377	M 3277	M 3575	M 3575	M 3575	M 3477/3575/3271-1/3677	M 3271-1/3477	M 3275-1	M 3275-1
MB-Approval	228.5	228.5	228.5	228.31	228.31	228.31	228.31, 228.51	228.31, 228.51	228.3	228.3
MTU	Oil Category 3	Oil Category 3	Oil Category 3	Oil Category 2.1	Oil Category 2.1	Oil Category 2.1	Oil Category 3.1/2.1	Oil Category 3.1	Oil Category 2	Oil Category 2
RENAULT	VI RLD-2/RXD	VI RLD-2	-	VI RLD-3	VI RLD-3	VI RLD-3	VI RLD-3	VI RXD/RGD, VI RLD-2	VI RLD, VI RLD-2	VI RLD-2
SCANIA	LDF-3	LDF-3	-	-	-	-	LA	-	-	-
VOLVO	VDS-3	VDS-3	-	VDS-4	VDS-4	VDS-4	VDS-4	VDS-3	VDS-3	VDS-3
ZF TE-ML	07D	03A, 05K, 07D, 21K	03A, 05K, 07D, 21K	05K, 07D, 21K	05K, 07D, 21K	04P, 07D	07D	03A, 05K, 07D, 21K	03A, 05K, 07D, 21K	03A, 04P, 07D



## Performance of LUKOIL truck engine oils



LUKOIL AVANTGARDE PROFESSIONAL LS5 10W-40  
 LUKOIL AVANTGARDE PROFESSIONAL LE 5W-30  
 LUKOIL AVANTGARDE PROFESSIONAL LA 10W-40  
 LUKOIL AVANTGARDE PROFESSIONAL M5 10W-40

## ▼ 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	Type of pack
<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!	46	7.1	858	ACEA E2 API CF/CF-2/SF MB 228.0 ZF-TE-ML 05K, 21K	5l 20l 60l 205l 1000l
<b>LUKOIL AVANTGARDE 20W-20</b> Prod. no.: 567520		55	8.1	858	ACEA E2 API CF/CF-2/SF MAN 270 MB 228.0 ZF-TE-ML 03A, 07D	
<b>LUKOIL AVANTGARDE 30</b> Prod. no.: 567530		106	11.8	891.4	ACEA E2 API CF/CF-2/SF MAN 270 MB 228.0 MTU Type 1 ZF-TE-ML 03A, 04A, 04B, 07D	
<b>LUKOIL AVANTGARDE 40</b> Prod. no.: 567542		150	15.3	896.2	ACEA E2 API CF/CF-2/SF MAN 270 MB 228.0 MTU Type 1 ZF-TE-ML 04A, 04B	
<b>LUKOIL AVANTGARDE 50</b> Prod. no.: 567550		201	18.5	900.3	ACEA E2 API CF/CF-2/SF MB 228.0 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	Type of pack
<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 exceed 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	Type of pack
<b>LUKOIL MOTO 4T SYNTH</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	1l 60l
<b>LUKOIL MOTO 4T</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	1l

## ▼ 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	Type of pack
<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	1l 205l





# 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	Type of pack
<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		1l 20l 60l

▼ 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	Type of pack
<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 Type E4 MB 235.29	MAN 341 Type E4/VR Voith Retarder Volvo 97307	60l 205l
<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 TYPE MB MB 235.11 ZF TE-ML 08		20l 60l 205l
<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 ZF TE-ML 01L/07A/08	MAN 341 Type E3 MAN 341 Type Z4 ZF-TE-ML 02L ZF-TE-ML 16K	20l 60l 205l
<b>LUKOIL TRANSMISSION MP 80W-85</b> Prod. no.: 583010  <b>LUKOIL TRANSMISSION MP 85W-90</b> Prod. no.: 583020	LUKOIL TRANSMISSION MP are mineral gear oils with extreme pressure properties, designed primarily for manual transmissions.	115  164	12.4  15.3	891  895	API GL-4 ZF TE - ML 08/16A/17A/19A  API GL-4 MIL-L-2105 ZF TE-ML 08 MB 235.1 ZF-TE-ML 16A/17A/19A	MB 235.1	20l 60l 205l  1l 20l 60l 205l

▼ 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	Type of pack
<b>LUKOIL TRANSMISSION V 80W-90</b> Prod. no.: 582016	LUKOIL TRANSMISSION V 80W-90 is a multigrade gear oil designed especially for Volvo lorry transmissions.	164	16.0	890	API GL-3, VOLVO 97305 ZF TE-ML 08		205l

▼ 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	Type of pack
<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 MAN 341 Type Z2 MIL-PRF-2105E ZF TE-ML 02B/05B/12L /12N/16F/17B/19C/ 21B	MAN 342 Type S-1 MB 235.8 Scania STO 1:0 Volvo 97312	60l 205l
<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/ O76-Q SAE J2360 ZF TE-ML 05A/12N/16F/17B /19C/21A	MAN 341 Typ M2 Scania STO 1:0 Volvo 97312	on request
<b>LUKOIL TRANSMISSION B 80W-90</b> Prod. no.: 583220	LUKOIL TRANSMISSION B are mineral differential oils designed primarily for utility vehicles and standard service intervals.	153	15.2	901	API GL-5 MAN 342 Type M1 MB 235.0 MIL-L-2105D Voith 3.325-339 Volvo 97310 ZF TE-ML 07A/08/16B/17B /19B/21A	MAN 342 Typ M1, MB 235.0, ZF TE-ML 16C, 17B, 19B, 21A	205l
<b>LUKOIL TRANSMISSION B 85W-90</b> Prod. no.: 583210		148	14.3	898	API GL-5 MIL-L-2105D VOITH 3.325-339 Volvo 97310 ZF-TE-ML 07A, 08		10l 20l 60l 205l



▼ 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	Type of pack
<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 16E ZF-TE-ML 05C, 12C, 21C		20l 60l 205l

▼ 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	Type of pack
<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 341Type E2/E3/ 342 M3 MB 235.0/235.8 MIL-PRF-2105E SAE J2360 Scania STO 1:0 Volvo 97312 ZF TE-ML 07A/08/12B	MAN 341 Type Z2 MAN 342 Type S1 ZF TE-ML 02B/05B/12L/12N /16F/17B/19C/21B	20l 60l 205l
<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 ScaniaSTO 1:0 Volvo 97310 ZF TE-ML05A/07A/08/12B /16F/21A		60l 205l
<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.	148	15	900	API GL-4/GL-5/ MT-1 ARVIN MERITOR 0-76-D MAN 341 Type E2 MAN 341 Type Z2 MAN 342 M-2 MB 235.0 MIL-PRF-2105E SAE J2360 Scania STO 1:0 ZF TE-ML 05B/07A/08/16C /19C/21B	ZF TE-ML 02B, 05A, 12L/M, 16B, 17H, 19B, 21A	1l 20l 60l 205l

▼ 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	Type of pack
<b>LUKOIL TRANSMISSION C 80W-140</b> Prod. no.: 583233	LUKOIL TRANSMISSION C are mineral gear oils for differentials according to the manufacturer's instructions. Recommended for transmissions and differentials in Scania lorries.	258	25.4	875	API GL-5 VOLVO 97310 ZF TE-ML 07A, 08		60l 205l
<b>LUKOIL TRANSMISSION C 85W-140</b> Prod. no.: 583234		375	26.8	910	API GL-5 NH 524A VOLVO 97310 ZF TE-ML 07A, 08		20l 60l 205l 1000l

▼ 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	Type of pack
<b>LUKOIL ATF S</b> Prod. no.: 583320	LUKOIL ATF S is a fully synthetic, red dyed high-performance transmission fluid. The extremely good viscosity temperature characteristics ensure precise shifting over a wide range of temperatures. Suitable for modern automatic transmissions such as Mercedes five-speed and VW Tiptronic transmissions.	34	7.2	840	Allison C4 Caterpillar TO-2 DIN 51 524 HVLP GM DEXRON®-IIE MAN 339 L1 NATO Code H-548 Volvo 97335 ZF TE-ML 11A, 21L	MAN 339 V2/Z2 MBL 236.6 RBAS TE-ML 09X Voith 55.6336.xx ZF TE-ML 04D, 14B, 16L (ZF001782)	205l
<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	Allison C-4/TES-295/TES-389 Ford MERCON/ MERCON V GM DEXRON II-D/ III-G/ III-H Jaso1-A MAN 339 L1/Z12 MB 236.6 RBAS TE-ML 09 Volvo 97341 ZF TE-ML 11A/11B/16L/21L	MAN 339 V2, Z3, MB-Approval 236.6, Voith 55.6336.XX ZF TE-ML 04D, 14C, 16M, 20C	205l

▼ 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	Type of pack
<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		MB 236.15	205l
<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	MB 236.10/236.11/236.12 ZF TE-ML 11A/11B	MB 236.14	205l
<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	Allison C-4/TES-295/TES-389 Ford MERCON/ MERCON V GM DEXRON III-H Jaso1-A Volvo 97340	MAN 339 Type L1 / V2/Z1 / Z2 MB 236.6 Voith H55.6336.XX Volvo97341 ZF TE-ML 04D/14B/16L/20B	205l
<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/CVTF-DFE Dodge / Jeep CVTF+4/NS-2 Ford CVT23/CVT30/MERCON C GM CVT Honda HFC-2/ HMMF Hyundai/Kia SP-III Hyundai Genuine CVTF MB 236.20 Mini ELZ 799 Mitsubishi CVTF-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 /CVT Green 2/NS-2/TC Toyota TC VW / AudiG 052 180/G 052 516		60l

▼ 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	Type of pack
<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 2152426 Chrysler 05127382AA /68043742AA/68157995AA Ford XT-10-QLV/XT-6-DSP/XT -6-QSP GM 88863400/88863401/AW1 Honda DW-1 Hyundai/Kia NWS-9638 T-5 /P/N 040000C90SG /SPH-IV/SP-IV Jaguar Fluid 8432 Jaso M315 1A Land RoverLR0022460/ 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 WS VW/ Audi G 052 533 /G 055 005 (-A; A2)/ G 055 162 (A2/A6)/G 055 540 (A2) / G 060162 A1/A2/A6	GM DEXRON®-VI	60l
<b>LUKOIL ATF III</b> Prod. no.: 583330	LUKOIL ATF III is a synthetic, red dyed universal high-performance transmission fluid for manual and automatic transmissions and for power steering systems according to the manufacturer's instructions. Excellent low-temperature properties and low viscosity temperature dependence ensure precise shifting over a wide range of temperatures.	35	7.3	850	Allison C4 Ford MERCON® GM DEXRON®-IIIIG RBAS TE-ML 09 Volvo 97340 ZF TE-ML 11B	MAN 339 V1/Z1 MB 236.6 Voith H55.6335.XX ZF TE-ML 04D/14A	1l 20l 60l 205l
<b>LUKOIL ATF IID</b> Prod. no.: 583311	LUKOIL ATF IID is a red universal transmission fluid for manual and automatic transmissions and for power steering systems according to the manufacturer's instructions. Very good low-temperature properties and low viscosity temperature dependence ensure precise shifting over a wide range of temperatures.	34	7.2	863	Allison C4 Caterpillar TO-2 Ford MERCON® GM DEXRON®II-D MAN 339 Typ L2 RBAS TE-ML 09 Volvo 97335 ZF TE-ML 17C/21L	MAN 339 V1/Z1, MB 236.6, VOITH H55.6335.XX, ZF TE-ML 04D, 11A, 14A	1l 20l 60l 205l



# 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	Type of pack
<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	API C F/CF - 2 and GL -4 ALLISON C-4 CATERPILLAR TO-4 KOMATSU-DRESSER ZF TE- ML 03C pass Eaton Vickers 35VQ25 vane pump test		60l 205l
<b>LUKOIL CONSTRUCT TO-4 30</b> Prod. no.: 583550		94	10.7	890	API C F/CF- 2 and GL-4 ALLISON C-4 CATERPILLAR TO-4 KOMATSU-DRESSER ZF TE-ML03A,03C,04A, 07D,07F		60l 205l
<b>LUKOIL CONSTRUCT TO-4 50</b> Prod. no.: 583555		223	18.7	902	ALLISON C-4 API CF/CF-2 and GL-4 CATERPILLAR TO-4 KOMATSU-DRESSER		205l

## ▼ 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	Type of pack
<b>LUKOIL VERSO MOTOR 10W-40</b> Prod. no.: 568240	LUKOIL VERSO MOTOR are high quality super tractor universal oils (STOU) for year-round use in engines, hydraulic systems and transmissions with wet brakes in agricultural and construction machinery.	91.4	14	875	ACEA E2 Allison C-4 API CG-4/GL-4/SF Caterpillar TO-2 CMS M1145 Ford M2C 159B/C John Deere J27 Massey Ferguson M1139 Massey Ferguson M1144 MB 227.1 MB 228.1 ZF TE-ML 06A/06C/06Q/06R	ZF-TE-ML 06B ZF-TE-ML 06F ZF-TE-ML 07B	20l 60l 205l 1000l  on request

▼ 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	Type of pack
<b>LUKOIL VERSO MOTOR 15W-30</b> Prod. no.: 568225	LUKOIL VERSO MOTOR are high quality super tractor universal oils (STOU) for year-round use in engines, hydraulic systems and transmissions with wet brakes in agricultural and construction machinery.	82	10.9	870	ACEA E2 API CF-4/SF API GL-4 ALLISON C-4 Case NEW HOLLAND CNH MAT3525 CATERPILLAR TO-2 FORD M2C159-B, M2C159-C JOHN DEERE JDM J27 MB 228.1 MF M1139, M1144, M1145 MIL-L-2104 D NEW HOLLAND 324G Recommended for vehicles with ZF S-MATIC infinitely variable transmission, CASE- STEYR-NEW HOLLAND CVX/ CVT/TVT, FENDT, DEUTZ- FAHR, STEYR 9000, LINDNER Geotrac Serie 4, VALTRA		20l 60l 205l 1000l  on request

▼ 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	Type of pack
<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 New Holland CNH MAT3525 Ford M2C86-B MF M1135 DIN 51502-HVLPD		10l 20l 60l 205l

▼ 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	Type of pack
<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/ M2C86 -C/M2C86-B Ford New Holland FNHA-2-C -200.00/FNHA-2-C-201.00 John Deere JDM J20C/D Kubota UDT Landini MACROS/C Valtra G2-08 WB101 ZF-TE-ML	ZF TE-ML 03E/ 05F/ 17E/ 21F (ZF002303)	20l 60l 205l
<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	03E/05F/06K/17E/21F  API GL-4		1000l
<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		20l



# AUTOMOTIVE LUBRICANTS

## SPECIAL PRODUCTS

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▼ Special products automotive – brake fluid

Product name	Description, Guidelines for use	Viscosity at -40° C mm <sup>2</sup> /s	Viscosity at 100° C mm <sup>2</sup> /s	Dry boiling point °C	Wet boiling point °C	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals	Type of pack
<b>PENTOSIN SUPER DOT 4</b> Prod. no.: 599371	PENTOSIN SUPER DOT 4 is a high quality brake fluid that was developed for all standard brake systems and especially for ABS systems and has a high dry and wet boiling point.	1500	7.9	265	165	1065	Audi/VW B 000 700 A1, B 000 700 A3, B 000 700 A6 BMW/Mini 81 22 9 407 510, 81 22 9 407 511, 81 22 9 407 512, 81 22 9 407 513 Land Rover LRNDOT4 Mercedes Benz 000 989 08 07 10, 000 989 08 07 11, 000 989 08 07 19 Porsche 000 043 203 66, 00 0 043 203 67  Approvals: FMVSS No. 116 DOT 4 ISO 4925 Class 4 MAN TUC 6518/07 SAE J1704	0.5l
<b>PENTOSIN SUPER DOT 5.1</b> Prod. no.: 599375	PENTOSIN SUPER DOT 5.1 is a high-performance glycol ether brake fluid and has a substantially higher wet boiling point than DOT 3 and DOT 4 brake fluids and can be mixed with all other brake fluid brands.	900	6.9	260	180	1064	FMVSS No. 116 DOT 5.1 ISO 4925 Class 5-1 SAE J1703  Approvals: DOT 5.1	0.5l

▼ Special products automotive – radiator anti-freeze

Product name	Description, Guidelines for use	Frost protection table			Meets Requirements Quality Level	Approvals	Type of pack
		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	VW TL 774-G für VW, Audi, Seat, Skoda, Lamborghini, Bentley, Bugatti ASTM D 4985 CES 14603 Deutz DQC CC-14 Scania TB 1451	MAN 324 Typ Si-OAT MB-Approval 325.5 MB-Approval 325.6 MB-Approval 326.0 (Smart)	60l
<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	PORSCHE Renault Scania TI 02-98 0813 T/B/M sv VW (G12+) TL 774 -D/F for VW, Audi, Lamborghini, Seat, Skoda, Bugatti ASTM D 4985 DAF MAT 74002 Deutz DQC C B-14	MAN 324 -SNF MB-Approval 325.3 MTU MTL 5048	1l 60l
<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 1 1	2 1.5 1	-20°C -27°C -40°C	ASTM D 33/06/D4985 Audi/VW/Skoda/Seat TL 774C FIAT 9.55523 IVECO 18-1830 KHD MTU MTL 5048 NH 900A ON V 5123 Opel/GM B 040 0240 + QL 130 100 PORSCHE SAAB 6901 599 Volvo 128 6083 VW (G11)	BMW GS 94000 (BMW N 600 9.0) Deutz DQC CA-14 GE-Jenbacher TA 1000-0201 MAN 324 – NF MAN 324 NF Pritarder MB-Approval 325.0	1l 60l 200l 1000l

## ▼ Coolant recommendation table passenger cars

Brand	Model	Year of construction from	to	LUKOIL COOLANT
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
	all models			LUKOIL COOLANT PLUS
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 from	to	LUKOIL COOLANT
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 from to		LUKOIL COOLANT
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 from to		LUKOIL COOLANT
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 from to		LUKOIL COOLANT
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 from to		LUKOIL COOLANT
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

BLENDING PLANT

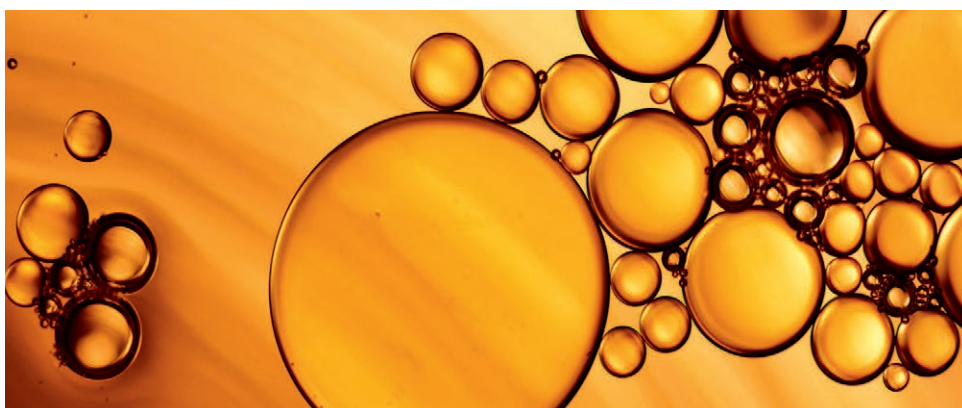
LUKOIL







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



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.

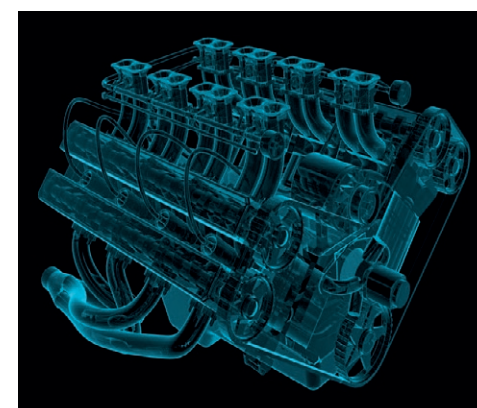
LUKOIL therefore contributes its part to ensure that today's highly complex logistics networks never come to a halt – a scenario which would be unimaginable for today's society.

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-



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



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

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

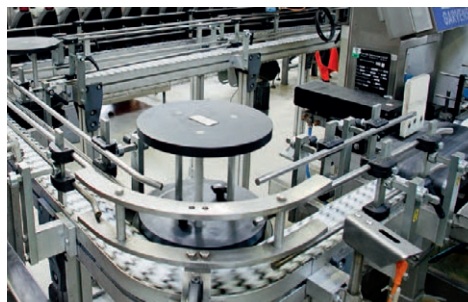
LUKOIL'S PREMIUM MOTOR OIL IS PREPARING TO CONQUER THE EUROPEAN MARKET – IN TERMS OF QUALITY AS WELL AS SUSTAINABLE BUSINESS.

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

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 fulfillment 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.



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.



## 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.

Founded in 1991 by the merger of regional oil and gas producing companies from the west Siberian cities of Langeepas, Urai and Kogalym (LUK ), LUKOIL has become the largest privately owned oil company in Russia. According to the company's credo of vertical integration – production, refining

and development as well as distribution of premium products under one roof – 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.



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

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

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

Or, as our customers would put it:

**Ride with Pride**



## LUKOIL LUBRICANTS EAST EUROPE, THE SUBSIDIARY OF LUKOIL GROUP.

LUKOIL LUBRICANTS EAST EUROPE, A COMPANY SPECIALIZED IN THE PRODUCTION AND SALE OF LUBRICANTS, INVESTED OVER 7 MILLION DOLLARS IN THE PAST YEARS FOR MODERNIZING THE PRODUCTION UNIT LOCATED ON THE PLATFORM OF THE PETROTEL- LUKOIL REFINERY IN PLOIEȘTI.



equipment manufacturers. This array includes base oils (used as inputs for production of ready-to-use oils and lubricants) and industrial oils for use in factory equipment, as well as motor and transmission oils for all types of transport.

The Ploiești refinery has a production capacity of up to 40.000 tonnes per year, 70% of which are traded on the internal market and the remaining are exported. One advantage of the factory is the flexibility to produce many lots in a perfectly closed production flow, which leads to high quality end products. Moreover, the entire process is performed with the help of the automated line cleaning technology (Pigging line). This provides rigorous quality control to the entire process, which is free of the errors appearing with traditional volumetric dosing. The entire production cycle ends with the packaging sector, which shall benefit of total new investments up to \$500,000. LUKOIL Lubricants produces a wide array of products that meet the most advanced operating requirements and specifications of vehicle and



### ▼ Motor Oil Classification SAE J300

SAE Class	Low Temperature Viscosity		High Temperature Viscosity	
	CCS [mPa.s]/[°C]	BPT [mPa.s]/[°C]	[mm²/s] @ 100°C	[mPa.s] @ 150°C & 10 <sup>6</sup> s <sup>-1</sup>
Winter				
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	
Summer	No Requirements			
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 \*\*

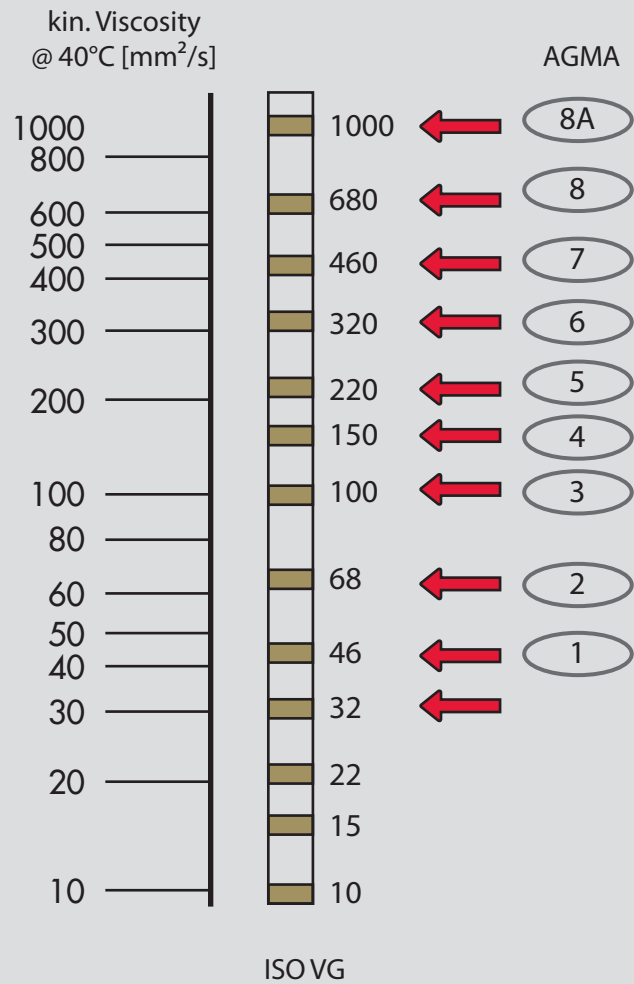
### ▼ Gear Oil Classification SAE J306

SAE Class	Low Temperature Viscosity Brookfield	High Temperature Viscosity Ubbelohde
	< 150.000 [mPa.s] @	[mm²/s] @ 100 °C
Winter		
70W	-55 °C	>4.1
75W	-40 °C	>4.1
80W	-26 °C	>7.0
85W	-12 °C	>11.0
Summer	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

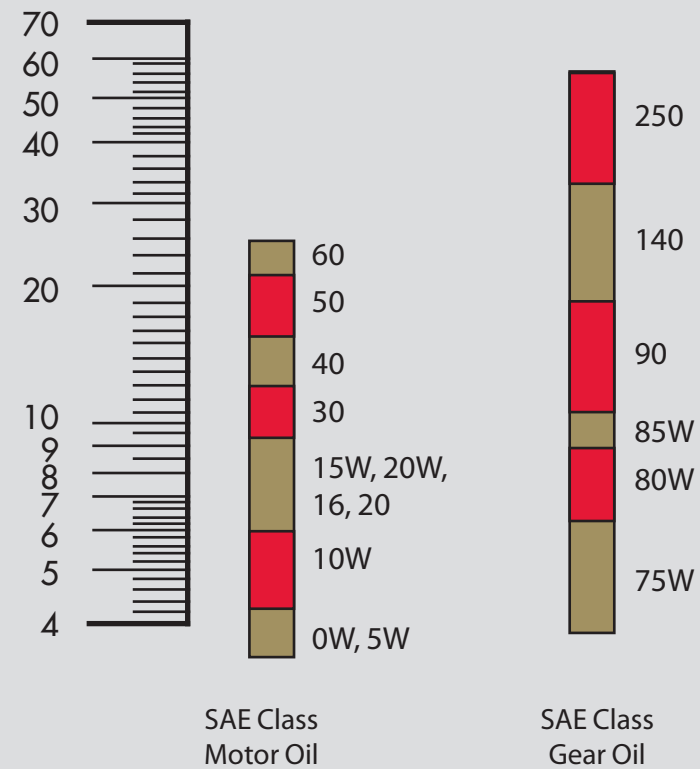
### ▼ Packages Data

Package	Tara weight [kg]	Width [mm]	Height [mm]	Lenght [mm]	Diameter [mm]	Pieces per Pallet	Pallet size [cm]
Multicarton 1 Liters	0.088	255	235	387		648	120x80
Multicarton 4 Liters	0.245	255	321	387		144	120x80
Multicarton 5Liters	0.300	255	321	387		108	120x80
Canister 20 Liters	1.1	239	380	292		32	120x10
Barrel 60 Liters	4,2		59		384	9	120x120
Barrel 205 Liters	14.4		89		585	4	120x120
IBC Container	59	1000	1165	1200		1	120x120

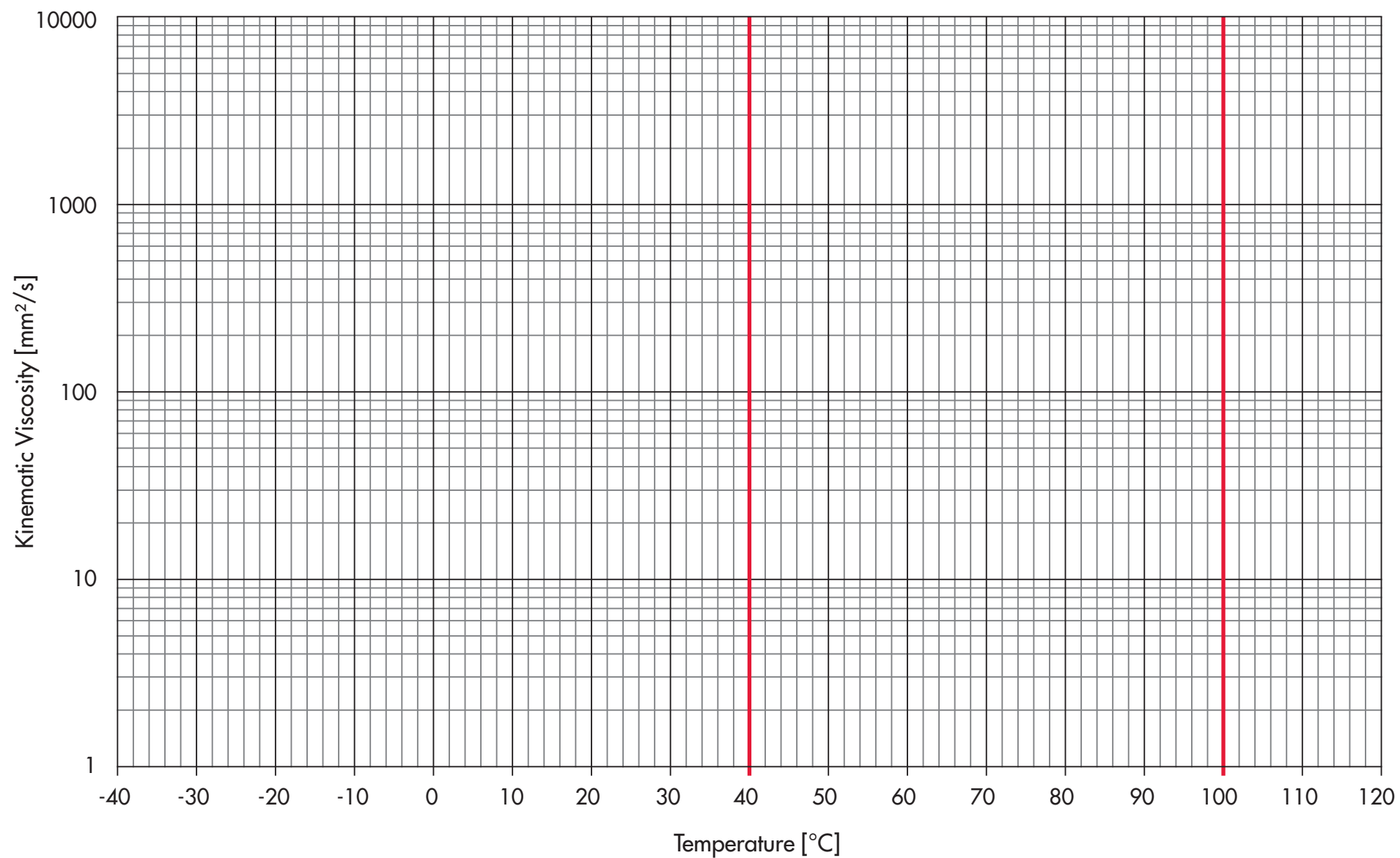
## Viscosity Classification



kin. Viscosity  
@ 100°C [mm²/s]



## Viscosity Temperature Chart



# INDUSTRIAL OILS AND GREASES

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**LUKOIL**

A close-up photograph of a white, cylindrical container, likely a fuel canister, with a red band around its top. The word "LUKOIL" is printed in large, bold, red capital letters on the white surface. To the left of the text is the Lukoil logo, which consists of a red square containing a white stylized flame or 'L' shape. The container is surrounded by other similar red and white containers, partially visible in the background.

▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51524-HLP ISO 6743-HM US Steel 127/136 VDMA 24318-HLP Eaton Brochure 03-401-2010 (dis- place Vickers I-286-S& M-2950-S) JCMAS HK GM LS-2 MAG IAS (Cincinnati Machine) P-68/69/70	20l 205l
<b>LUKOIL GEYSER ST 22</b> Prod. no.: 572520		22	4.3	>210	<-33	864		20l 205l
<b>LUKOIL GEYSER ST 32</b> Prod. no.: 572530		32	5.5	>220	<-27	874	Failure load level DIN ISO 14635-1 A/8,3/90-M:>10	20l 60l 205l 1000l
<b>LUKOIL GEYSER ST 46</b> Prod. no.: 572540		46	6.7	>230	<-27	878	APPROVALS Bosch Rexroth RD90220 Parker Denison HF-0 PALFINGER	10l 20l 60l 205l 1000l
<b>LUKOIL GEYSER ST 68</b> Prod. no.: 572550		68	9.0	>235	<-27	881		10l 20l 60l 205l 1000l
<b>LUKOIL GEYSER ST 100</b> Prod. no.: 572560		100	11.0	>255	<-18	887		20l 205l

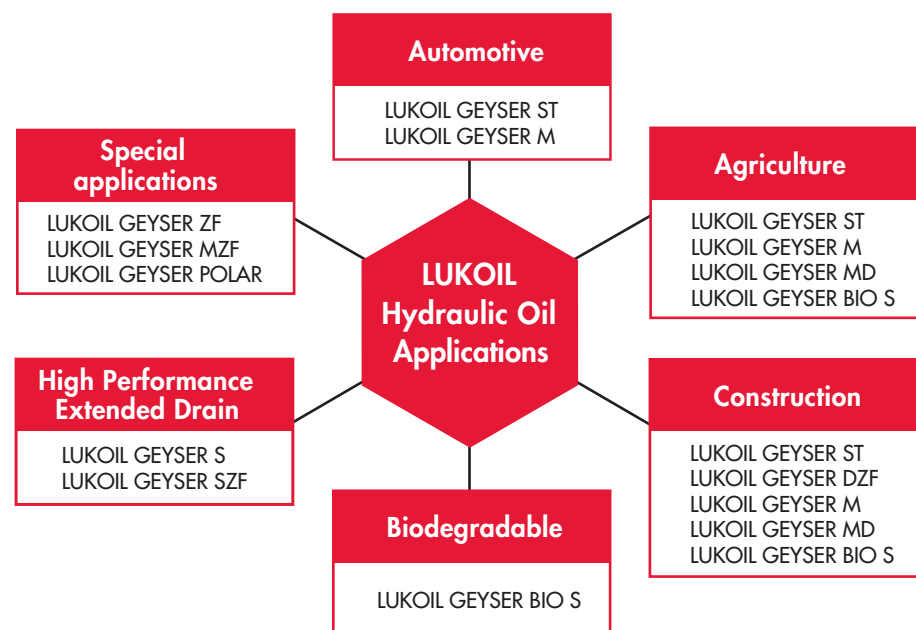
▼ Hydraulic oils, mineral, multigrade

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	Type of pack
<b>LUKOIL GEYSER M15</b> Prod. no.: 572620	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	MEETS REQUIREMENTS DIN 51524-HVLP Bosch Rexroth RD90220 ISO 6743-4 HV US Steel 127/136 VDMA 24318-HVLP	20l 205l
<b>LUKOIL GEYSER M32</b> Prod. no.: 572630		32	6.2	>200	<-36	867	Eaton Brochure 03-401-2010 (dis- place Vickers I-286-S& M-2950-S) JCMAS HK GM LS-2	20l 205l 1000l
<b>LUKOIL GEYSER M46</b> Prod. no.: 572640		46	8.1	>210	<-36	876	MAG IAS (Cincinnati Machine) P-68/69/70 Failure load level DIN ISO 14635-1 A/8,3/90-M:>10	20l 60l 205l 1000l
<b>LUKOIL GEYSER M68</b> Prod. no.: 572680		68	10.8	>230	<-33	880	APPROVALS PALFINGER	20l 205l 1000l
<b>LUKOIL GEYSER POLAR 15</b> Prod. no.: 572810	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	MEETS REQUIREMENTS DIN 51524-HVLP VDMA 24318-HVLP ISO 6743-4 HV	205l
<b>LUKOIL GEYSER POLAR 32</b> Prod. no.: 572830		31.2	10.7	>125	<-39	869	APPROVALS PALFINGER	205l

▼ Hydraulic oils, mineral, ashless

Product name	Description, Guidelines for use	Viscosity at 40° C mm²/s	Viscosity at 100° C mm²/s	Flash point ° C	Pour-point ° C	Density at 15° C kg/m³	Meets Requirements Quality Level, Approvals	Type of pack
<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 zinc 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	MEETS REQUIREMENTS DIN 51524-HLP VDMA 24318-HLP ISO 6743-4 HM	205l
<b>LUKOIL GEYSER ZF 46</b> Prod. no.: 572546		48	7.0	>220	<-30	881	Failure load level DIN ISO 14635-1 A/8,3/90-M:>10	205l
<b>LUKOIL GEYSER ZF 68</b> Prod. no.: 572555		70	8.7	>230	<-27	884	Approvals: Parker Denison HFO, HF1, HF2	205l

### 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	Type of pack
<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 zinc 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	MEETS REQUIREMENTS DIN 51524-HVLP VDMA 24318-HVLP ISO 6743-4 HV SEB 181 222-66 Schadenskraftstufe DIN ISO 14635-1 A/8,3/90-M:>10	205l

▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51502-HLPD DIN 51517-CLP ISO 11158 HM DBL 6721.00	205l
<b>LUKOIL GEYSER DZF 32</b> Prod. no.: 572750		33.1	5.5	>220	<-30	874	Failure load level DIN ISO 14635-1 A/8,3/90-M:>12	20l
<b>LUKOIL GEYSER DZF 46</b> Prod. no.: 572760		47	6.7	>225	<-27	879		20l 205l
<b>LUKOIL GEYSER DZF 68</b> Prod. no.: 572770		70.1	8.7	>235	<-24	885		20l

## ▼ 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	Type of pack
<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	DIN 51 502 HVLDP, DIN 51 517-CLP	20l 205l

## ▼ 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	Type of pack
<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, low foaming and allows maximum service intervals.	47	7.9	>230	<-24	850	MEETS REQUIREMENTS DIN 51524-HLP-HC ISO 6743-4-HS SEB 181222-66 VDMA 24318-HLP recommended for ENGEL injection molding machines!  APPROVALS PALFINGER	20l 60l 205l

## ▼ 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	Type of pack
<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, low foaming and allows maximum service intervals.	47.7	7.8	>250	<-12	847	MEETS REQUIREMENTS DIN 51524-HLP ISO 6743-4-HS SEB 181222-66 VDMA 24318-HLP ÖNORM C 2027-3  Especially recommended for use in machines of SALVAGNINI	205l

## ▼ 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	Type of pack
<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	MEETS REQUIREMENTS ON C 2027-HEES VDMA 24568 HEES	on request
<b>LUKOIL GEYSER BIO S 32</b> Prod. no.: 572692		32	6.4	>230	<-51	915	Biodegradability after 21 days according to ON C 1158: >90%	205l
<b>LUKOIL GEYSER BIO S 46</b> Prod. no.: 572693		46	9.2	>230	<-45	915	APPROVALS PALFINGER	20l 60l 205l

▼ 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	Type of pack
<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	MEETS REQUIREMENTS AGMA 250.04 AGMA 9005-D94 DIN 51517-CLP	20l 60l 205l
<b>LUKOIL STEELO HST 100</b> Prod. no.: 579112		98	10.9	>210	<-18	885	SEB 181226 US Steel 222,223,224 ISO 12925-1 L-CKC	60l 205l
<b>LUKOIL STEELO HST 150</b> Prod. no.: 579114		155	14.7	>220	<-15	889	Provisions of Timken Ltd. for rolling bearings Failure load level DIN ISO 14635-1 A/8,3/90-M:>12	20l 60l 205l
<b>LUKOIL STEELO HST 220</b> Prod. no.: 579122		226	18.8	>235	<-15	897	Micro pitting resistance according to FVA Informationsblatt Nr. 54/I-IV:>10	20l 60l 205l
<b>LUKOIL STEELO HST 320</b> Prod. no.: 579132		319	23.6	>230	<-12	900	APPROVALS Siemens MD (Flender) Revision 13 Müller Weingartner DT 55005	1000l 20l 60l 205l
<b>LUKOIL STEELO HST 460</b> Prod. no.: 579150		469	30.0	>230	<-12	906		20l 60l 205l
<b>LUKOIL STEELO HST 680</b> Prod. no.: 579168		666	39.4	>230	<-12	904		205l
<b>LUKOIL STEELO HST 1000</b> Prod. no.: 579170		1000	55	>230	<-9	904		205l
<b>LUKOIL STEELO HST 2200</b> Prod. no.: 579190		2200	118	>230	<-3	905		205l



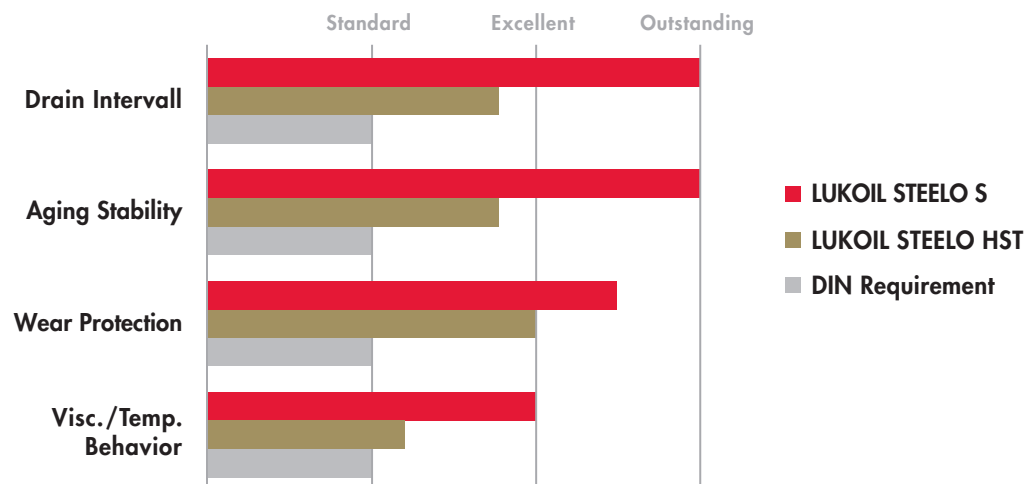
▼ Industrial gear oils, fully synthetic

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	Type of pack
<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	MEETS REQUIREMENTS AGMA 250.04 AGMA 9005-D94 DIN 51517-CLP-HC SEB 181226 US Steel 222,223,224 ISO 12925-1 L-CKT Provisions of Timken Ltd. for rolling bearings Failure load level DIN ISO 14635-1 A/8,3/90-M:>12	20l
<b>LUKOIL STEELO S 100</b> Prod. no.: 579266		102	14.3	>235	<-48	842		20l
<b>LUKOIL STEELO S 220</b> Prod. no.: 579270		216	25.2	>240	<-42	846		20l 205l
<b>LUKOIL STEELO S 320</b> Prod. no.: 579280		314	34.3	>250	<-39	848		20l
<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	<-39	1072	MEETS REQUIREMENTS DIN 51517-CLP-PG ISO 12925-1 L-CKT Provisions of Timken Ltd. for rolling bearings (OK load 60 lbs) Failure load level DIN ISO 14635-1 A/8,3/90-M:>12	20l 205l
<b>LUKOIL STEELO PG 460</b> Prod. no.: 579260		460	75.1	>280	<-39	1075		20l 205l

▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51517-CLP-E Provisions of Timken Ltd. for rolling bearings (OK load 60 lbs) Failure load level DIN ISO 14635-1 A/8,3/90-M:>12 Biodegradability after 21 days after ON C 1158:> 90%	20l
<b>LUKOIL STEELO BIO S 220</b> Prod. no.: 579540		219.1	28.5	>230	<-24	956		20l

### Gear oil characteristics



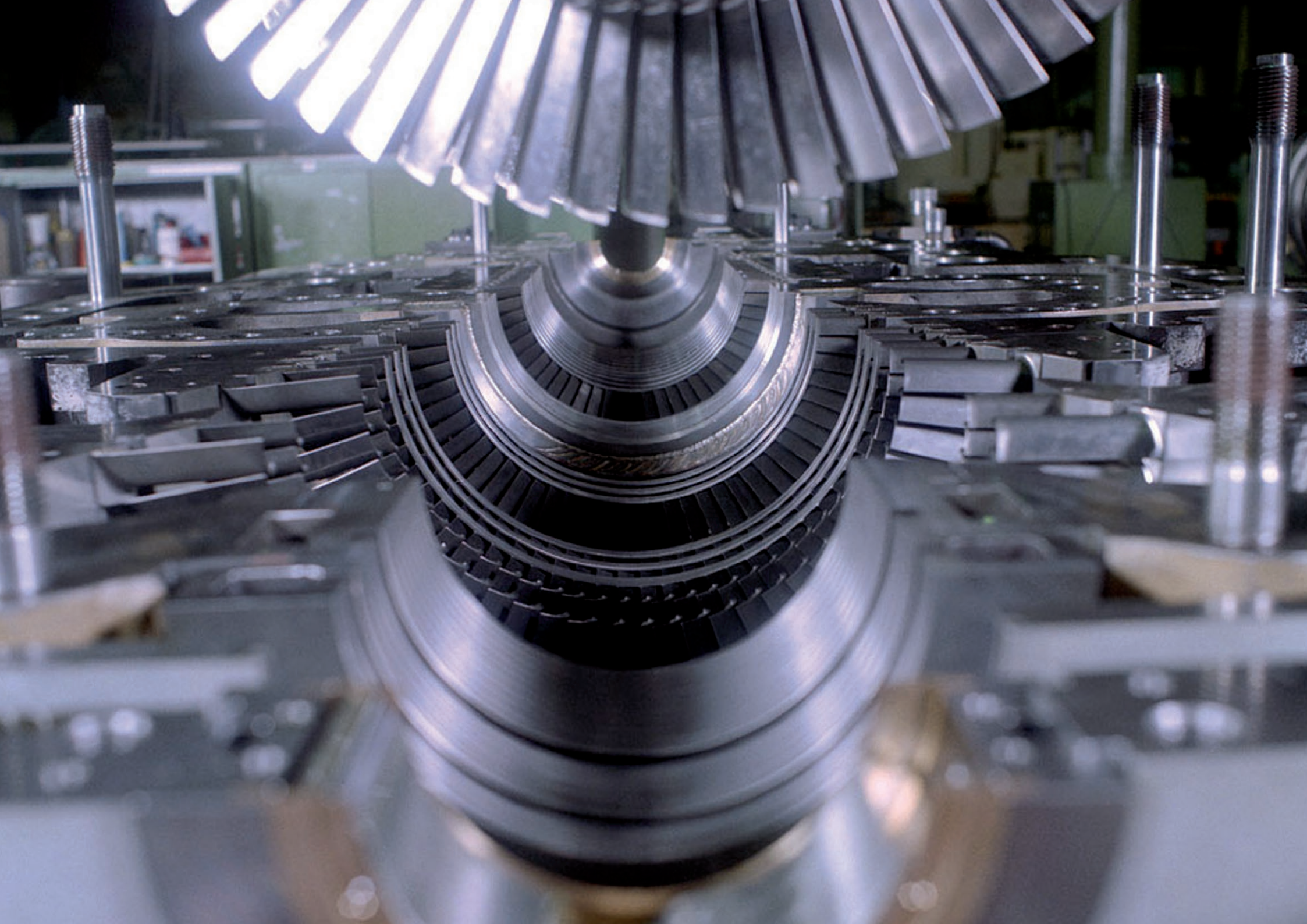


# INDUSTRIAL OILS AND GREASES

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LUKOIL

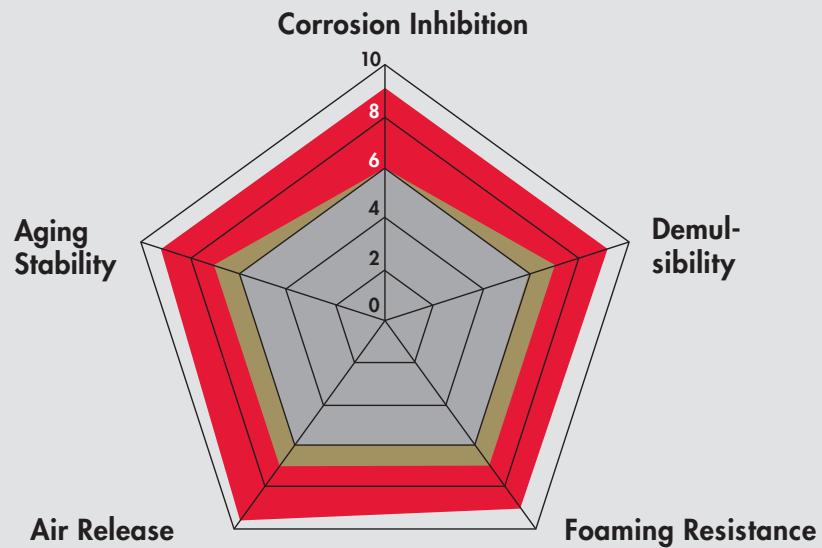




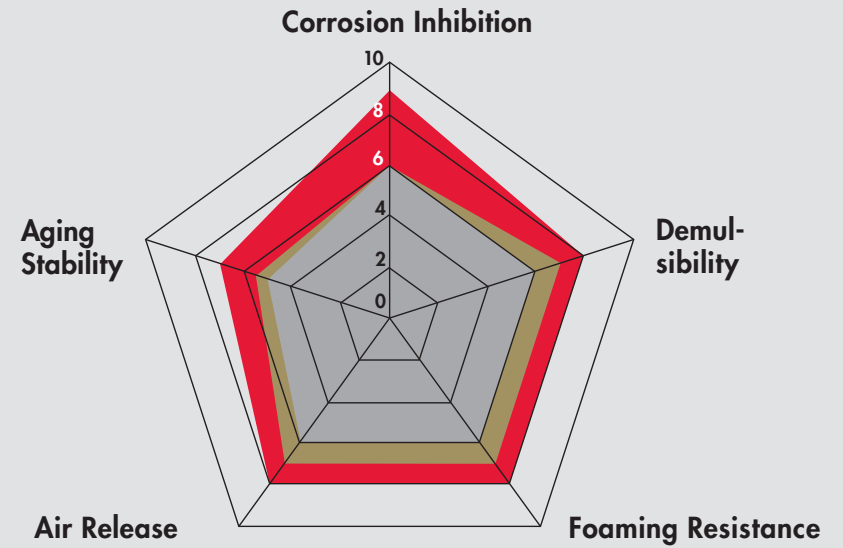
▼ Turbine oils, synthetic

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	Type of pack
<b>LUKOIL TORNADO S 32</b> Prod. no.: 572260	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	MEETS REQUIREMENTS DIN 51515-TG MAN TURBO GENERAL ELECTRIC	205l
<b>LUKOIL TORNADO S 46</b> Prod. no.: 572265		44.7	7.6	>240	<-33	844	APPROVALS SIEMENS TLV 9013 04/9013 05	205l
<b>LUKOIL TORNADO SEP 32</b> Prod. no.: 572270	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	MEETS REQUIREMENTS DIN 51515-TGP GENERAL ELECTRIC MAN TURBO VOITH Turbo	205l 1000l
<b>LUKOIL TORNADO SEP 46</b> Prod. no.: 572275		44.7	7.6	>240	<-33	844	APPROVALS SIEMENS TLV 9013 04/9013 05	205l 1000l
<b>LUKOIL TORNADO SNH 32</b> Prod. no.: 572278	LUKOIL TORNADO SNH 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.	32.7	5.9	>235	<-36	843	MEETS REQUIREMENTS DIN 51515 -TD	205l
<b>LUKOIL TORNADO SNH 46</b> Prod. no.: 572280		48.8	7.9	>245	<-33	844		205l

## Turbine oil characteristics



■ LUKOIL TORNADO SEP ■ EB Specification ■ DIN Standard



■ LUKOIL TORNADO EP ■ EB Specification ■ DIN Standard



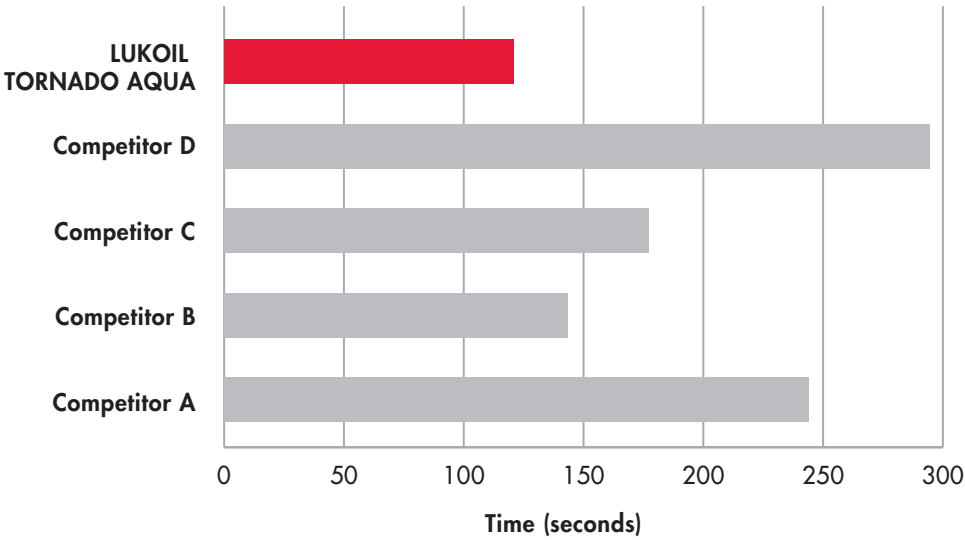
▼ Turbine oils, mineral

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	Type of pack
<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.  LUKOIL TORNADO are suitable as lubricating oils for steam turbines according to the manufacturer's instructions.	32	5.3	>200	<-15	874	MEETS REQUIREMENTS DIN 51515-TD BBC ELIN	205l
<b>LUKOIL TORNADO 46</b> Prod. no.: 572010		46	6.5	>220	<-15	855	Kraftwerksunion MAN KK&K STAL-LAVAL	205l 1000l
<b>LUKOIL TORNADO 68</b> Prod. no.: 572060		68	8.6	>220	<-12	878	APPROVALS SIEMENS TLV 9013 04 (ISO VG 32, 46)	205l
<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.  LUKOIL TORNADO EP are suitable as lubricating oils for steam turbines with gearboxes according to the manufacturer's instructions.	32	5.3	>200	<-18	870	MEETS REQUIREMENTS DIN 51515-TDP DIN 51506-VB, -VBL DIN 51517 CL	205l
<b>LUKOIL TORNADO EP 46</b> Prod. no.: 572230		46	6.5	>210	<-15	873	DIN 51524-HL VDMA 24318-HL SEB 181222 Failure load level DIN ISO 14635-1	205l 1000l
<b>LUKOIL TORNADO EP 68</b> Prod. no.: 572240		68	8.6	>210	<-12	878	A/8,3/90-M:9  APPROVALS SIEMENS TLV 9013 04 (ISO VG 32, 46)	205l

▼ 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	Type of pack
<b>LUKOIL TORNADO AQUA 78</b> Prod. no.: 572255	LUKOIL TORNADO AQUA are high quality mineral turbine oils. The products offer excellent ageing resistance, especially good air and water release and reliable corrosion protection.  LUKOIL TORNADO AQUA are suitable as lubricating oils for water and steam turbines and for hydraulic and circulation lubrication systems according to the manufacturer's instructions.	78	9.4	>210	<-21	885	MEETS REQUIREMENTS DIN 51515-TD ISO 8086-L-TSA and -TGA BBC	205l
<b>LUKOIL TORNADO AQUA 100</b> Prod. no.: 572257		100	11	>220	<-21	878	DEMAG-DELAVAL ELIN Kraftwerksunion MAN STAL-LAVAL	205l

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	Type of pack
<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	MEETS REQUIREMENTS DIN 51506-VB, VBL, VC, VCL & VDL ISO 6521 DAA, DAB, DAH, DAG	20l 60l 205l
<b>LUKOIL STABIO VDL 68</b> Prod. no.: 571830		70	8.8	>235	<-24	880		20l 60l 205l
<b>LUKOIL STABIO VDL 100</b> Prod. no.: 571840		98	10.9	>245	<-18	882		60l 205l
<b>LUKOIL STABIO VDL 150</b> Prod. no.: 571850		149	14.4	>250	<-18	883		20l 60l 205l

▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51506-VB, VBL, VC, VCL and VDL; ISO 6521 DAA, DAB, DAH, DAG	205l
<b>LUKOIL STABIO D 68</b> Prod. no.: 571823		68.7	8.7	>225	<-24	883		20l 60l

▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51524 – HVLP-HC DIN 51506-VB-HC, VBL-HC, VC-HC, VCL-HC & VDL-HC ISO 6521 DAA, DAB, DAH, DAG Failure load level DIN ISO 14635-1 A/8,3/90-M:12 Specific wear in load stage 11: 0,14 mg/kWh	205l
<b>LUKOIL STABIO S 46</b> Prod. no.: 571532		46	7.6	>230	<-48	834		205l
<b>LUKOIL STABIO S 68</b> Prod. no.: 571535		70	11.5	>260	<-48	836		205l
<b>LUKOIL STABIO S 100</b> Prod. no.: 571540		100	14.2	>240	<-45	839		205l

# INDUSTRIAL OILS AND GREASES

## GAS ENGINES

Page

Gas engine oils

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# LUKOIL





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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	Type of pack
<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!	115	14.6	>230	<-27	875	MEETS REQUIREMENTS MAN 3271-2 DEUTZ 0199-99-2105/7 gas engines  APPROVALS GE Jenbacher TA 1000-1109 Caterpillar CG132, CG132B, CG170, CG260, CG260 (4.5) – TR 2105/19 EN MWM TCG 2016, TCG 2020, TCG 2032, TCG 2032B, TCG 3016 – TR 2105/19 EN	205l
<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	MEETS REQUIREMENTS MAN 3271-2  APPROVALS GE-JENBACHER TA 1000-1109 DEUTZ 0199-99-2105/7 Rolls-Royce K-type engines Wärtsilä 175SG, 220SG, 25SG, 28SG, 34SG, 50SG, 20DF, 32DF, 34DF, 50DF	205l
<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	MEETS REQUIREMENTS MIL-L-2104B/C API CC  APPROVALS MAN 3271-4 GE-JENBACHER TA 1000-1109 MDE 57 AP 2008 MTU BR 400	205l



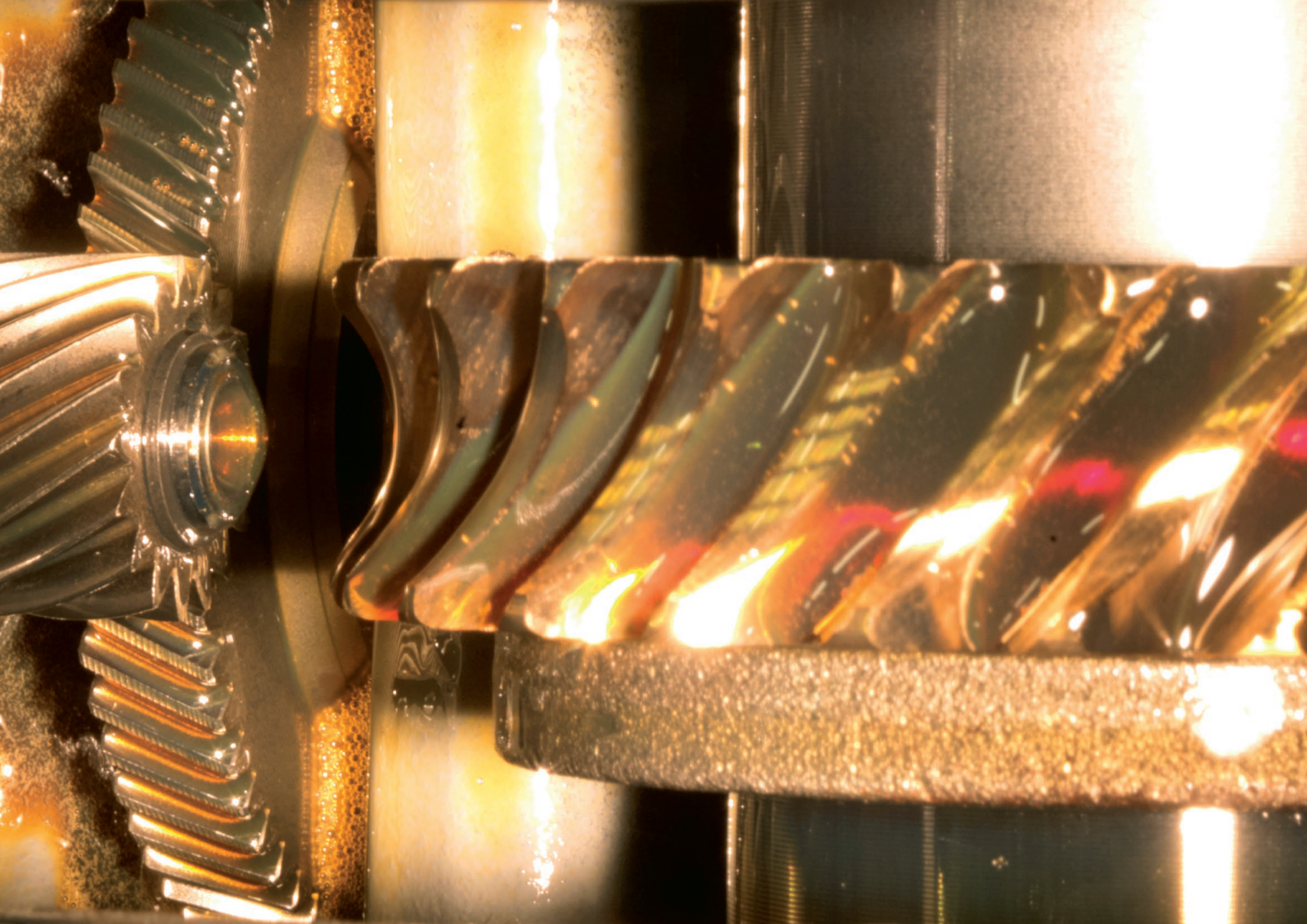
# INDUSTRIAL OILS AND GREASES

## 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 %	Refracto-meter factor	Density at 15° C kg/m <sup>3</sup>	Meets Requirements Quality Level, Approvals	Type of pack
<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. Must be stored above freezing!	20	9.9	5.0	1.5	975		on request
<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%). Must be stored above freezing!	80	8.6	3.0	0.86	884	MEETS REQUIREMENTS DIN 51 502-HFA	16kg 205l
<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. Must be stored above freezing!	46	9.1	4.0	0.9	980		18kg 205l 1000l
<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. Must be stored above freezing!	45	9.8	5.0	1	952		1000l
<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. Must be stored above freezing!	40	9.2	4.0	1.16	966		18kg 205l 1000l

▼ Cooling lubricants, water-miscible, emulsion concentrates

Product name	Description, Guidelines for use	Mineral oil content %	pH value 5 %	Corrosion protection SO/RO %	Refracto-meter factor	Density at 15° C kg/m³	Meets Requirements Quality Level, Approvals	Type of pack
<b>LUKOIL MIXCUT SE</b> Prod. no.: 581080	LUKOIL mixcut SE is a water emulsifiable cooling lubricant concentrate (mineral oil-free) for the general machining of steel, high alloy steel and aluminium alloys. Thanks to its specially designed emulsification system, the product is known for its high-performance and excellent cooling and detergent properties, which makes it suitable for a wide range of machining processes and materials.	–	9.3	5.0	1.2	–		on request

▼ Cooling lubricants, water-miscible, additives for emulsions

Product name	Description, Guidelines for use	Mineral oil content %	pH value 5 %	Corrosion protection SO/RO %	Refracto-meter factor	Density at 15° C kg/m³	Meets Requirements Quality Level, Approvals	Type of pack
<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%. Must be stored above freezing!	–	11.6 (1%)	–	–	1053		10kg
<b>GROTAN OK</b> Prod. no.: 581040	GROTAN OK is a preserving agent for technical products and is suitable for the preservation of water-mixed cooling lubricants, cooling lubricant concentrates and other technical emulsions.	–	–	–	–	–		10kg
<b>LUKOIL MIXADD DH</b> Prod. no.: 581041	LUKOIL MIXADD DH is a water hardener (a watery solution of an organic calcium salt) and is pre-diluted with water so that it can be used without further dilution.	–	6.5–7.0	–	–	1140		10kg
<b>ACTICIDE 45</b> Prod. no.: 581042	ACTICIDE 45 is a preserving agent concentrate developed especially to protect watery products and products containing solvents against fungal growth in the film and is also suitable for the protection of fluids that require the use of a concentrated product against fungal growth.	–	–	–	–	–		5kg

▼ 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	Type of pack
<b>LUKOIL MIXADD AF</b> Prod. no.: 581044	LUKOIL MIXADD AF is an anti-foaming agent for watery systems. It is composed of a mixture of glycols and surface-active compounds.	–	8.0	–	–	1003		10kg
<b>LUKOIL MIXADD YM</b> Prod. no.: 581045	LUKOIL MIXADD YM is a metal passivator (a solution of a triazole derivative in glycols with roughly 24% active agent).	–	6.0 – 7.0	–	–	1018		10kg
<b>LUKOIL MIXADD EM</b> Prod. no.: 581046	LUKOIL MIXADD EM is an anti-foaming agent for watery systems. It is composed of a mixture of glycols and surface-active compounds.	–	ca. 8.0	–	–	1003		20kg

▼ 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	Type of pack
<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		20l
<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		205l

▼ 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	Type of pack
<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		205l
<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		205l
<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. This product is subject to mineral oil tax.	4.3	1.5	>115	<-27	865		on request
<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		205l
<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		205l



▼ 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	Type of pack
<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		205l
<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. This product is subject to mineral oil tax!	4.7	1.6	>110	<-24	864		205l

▼ 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	Type of pack
<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		60l
<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		205l
<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		205l

### ▼ 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	Type of pack
<b>LUKOIL ROLL ST8</b> Prod. no.: 576151	LUKOIL ROLL ST 8 are high-performance mineral cold rolling oils for stainless and special steels. The selected components ensure bright annealed quality strip surfaces; the oil vaporises with no residues after annealing. For increasing performance when needed!	7.8		>150		847	MEETS REQUIREMENTS Hardening and coating oil DIN 51 502 – L 15	on request
<b>LUKOIL ROLL ST8-2TM</b> Prod. no.: 576160						833		on request

### ▼ 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	Type of pack
<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	MEETS REQUIREMENTS Hardening and coating oil DIN 51 502 – L 15	205l

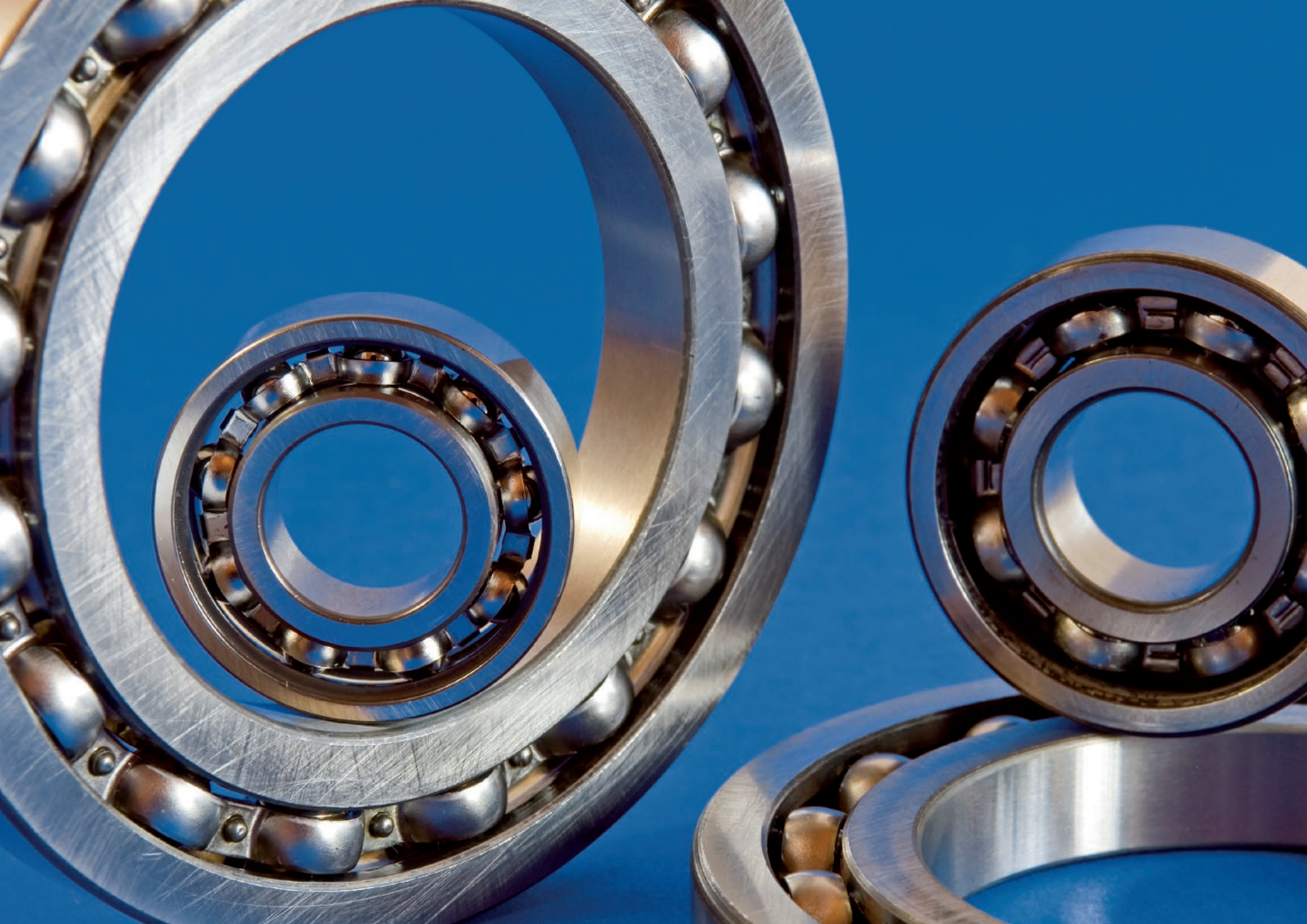
### ▼ Metalworking oils for slideway

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	Type of pack
<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	MEETS REQUIREMENTS DIN 51502 CG und CGLP DIN 51517 CLP	20l 205l
<b>LUKOIL SLIDO 220</b> Prod. no.: 575520		220	18.7	>250	<-15	894	ISO/TR 3498-G ISO 6743/13-G	20l 205l
<b>LUKOIL SLIDO 320</b> Prod. no.: 575530		315	23.5	>260	<-12	898	Cincinnati P47 (LUKOIL SLIDO 68) Cincinnati P50 (LUKOIL SLIDO 220)	20l
<b>LUKOIL SLIDO 460</b> Prod. no.: 575540		497	31.3	>280	<-9	904	FZG failure load stage according to DIN ISO 14635-1 A/8,3/90-M:>12	20l 205l

# 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51 825 -KP 1 R-30	0.4kg 50kg 180kg

## ▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51 825 -KP HC 2 S-30	0.4kg 18kg 50kg 180kg

▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51 825 -K 2 K-30	0.4kg 5kg 18kg 50kg 180kg
<b>LUKOIL GREASE L 3</b> Prod. no.: 589730		Li	120	3	225	>195	MEETS REQUIREMENTS DIN 51 825 -K 3K-30	0.4kg 5kg 50kg 180kg
<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	MEETS REQUIREMENTS DIN 51 825 -KP 1 K-30	50kg 180kg
<b>LUKOIL SIGNUM EPL 2</b> Prod. no.: 589830		Li	120	2	265/295	>190	MEETS REQUIREMENTS DIN 51 825 -KP 2K-30 APPROVALS Stiebel Gearbox A2000	0.4kg 18kg 180kg
<b>LUKOIL SIGNUM EPL 3</b> Prod. no.: 589835		Li	120	3	220/250	>190	MEETS REQUIREMENTS DIN 51 825 -KP 3K-30	18kg
<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	MEETS REQUIREMENTS DIN 51 825 - KPF 2 K-30 FORD ESW-M1C71-A and ESA-M1C75-B	0.4kg 50kg

▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51 825 -KP 2 K-30	0.4kg 5kg 18kg 50kg 180kg
<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	MEETS REQUIREMENTS DIN 51 825 - KP 2 N-30  APPROVALS MAN 283 Li-P 2 MB-approval267.0	50kg 180kg
<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	MEETS REQUIREMENTS DIN 51 826 – GP 00/000 K-30 Bielomatik und Lincoln  APPROVALS MAN 283 Li-P 00 MB-A pproval 264.0 Willy Vogel AG Stiebel Gearbox A2000	5kg 18kg 50kg 180kg

▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51 825 - KP 2 P-30 MB 265.1  APPROVALS MAN 284 Li-H 2	50kg 180kg
<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	MEETS REQUIREMENTS DIN 51 825 -KP 2 P-30	0.4kg 5kg 18kg 50kg 180kg
<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	MEETS REQUIREMENTS DIN 51 826 -GP 00 P-30	5kg 18kg 50kg 180kg



## ▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51 825 -K 2C-30	180kg

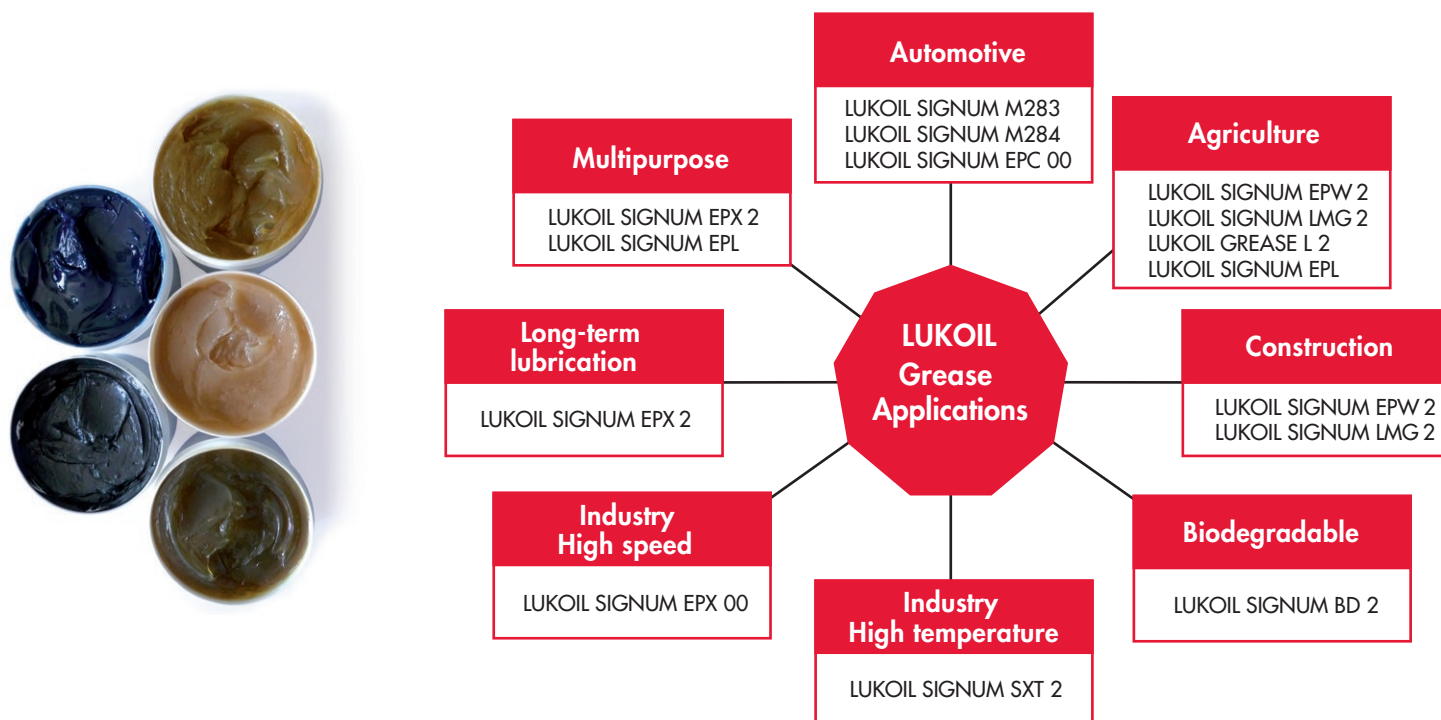
## ▼ Grease specialties

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	Type of pack
<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	–	–	–	–	MEETS REQUIREMENTS DIN 51 513 -BC	500ml
<b>LUKOIL CHISEL PASTE</b> Prod. no.: 589295	LUKOIL CHISEL PASTE is a lubricating paste with copper and graphite additives. The product offers high adhesion and effective wear protection. Ideal for lubricating plug tools and wearing bushes on hydraulic and air hammers and screw, plug and bayonet joints, for example on drilling rods.	Li	–	1-2	310 to 340	aprox. 180		0.4kg

## ▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51 825 -KP E 2 N-30	50kg

## Application guideline for LUKOIL Greases



# INDUSTRIAL OILS AND GREASES

## TOTAL LOSS LUBRICATION

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LUKOIL







▼ 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	Type of pack
<b>LUKOIL BIOSEGAROL E 100</b> Prod. no.: 580481	LUKOIL BIOSEGAROL E 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	MEETS REQUIREMENTS ON C 2030 Biodegradability after 21 days to ON C 1158:> 90%	4l 20l 205l
<b>LUKOIL CHAINSAW H 120</b> Prod. no.: 580410	LUKOIL CHAINSAW H 120 is a mineral chainsaw oil. The product offers reliable wear protection and good adhesion. May not be used as chainsaw oil in Austria!	123	14.0	>240	<-27	884	MEETS REQUIREMENTS DIN 51 502-CL	1l 4l 10l 205l
<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		on request
<b>LUKOIL BIOCHAIN MEDIUM</b> Prod. no.: 580432		68		>225	<-36	897		on request
<b>LUKOIL BIOCHAIN HEAVY</b> Prod. no.: 580433		100		>254	<-33	905		205l

▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51502-CL PG22	20l
<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	MEETS REQUIREMENTS ISO 6743/11	20l 205l

▼ 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	Type of pack
<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	MEETS REQUIREMENTS According to DIN 51502 classified both as CLP (high-pressure gear oils) as well as CGLP (slideway oils with anti-aging and EP additives). FZG Load Carrying Capacity acc. to DIN ISO 14635-1 A/8,3/90-M: >12	205l
<b>LUKOIL LUBE GF 150</b> Prod. no.: 580442		150	15	>230	<-9	890		205l
<b>LUKOIL LUBE GF 220</b> Prod. no.: 580443		220	18.7	>235	<-9	894		205l
<b>LUKOIL LUBE GF 320</b> Prod. no.: 580444		317	23.8	>235	<-9	901		205l
<b>LUKOIL LUBE GF 460</b> Prod. no.: 580445		455	30.4	>235	<-9	906		205l
<b>LUKOIL LUBE GF 680</b> Prod. no.: 580446		666	39.1	>235	<-9	906		205l

▼ Total loss lubricants, general

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	Type of pack
<b>LUKOIL BIOLUBE H 32</b> Prod. no.: 570125	LUKOIL BIOLUBE H 32 is a rapidly biodegradable universal lubricating oil. The product offers excellent adhesion and low viscosity temperature dependence. Ideal as a lubricating oil for open lubrication points in ecologically sensitive areas.	39	9.2	>300	<-9	920	MEETS REQUIREMENTS Biodegradability after 21 days to ON C 1158: >90%	on request
<b>LUKOIL LUBE H 68</b> Prod. no.: 580429	LUKOIL LUBE H 68 is a mineral universal lubricating oil. The product offers excellent adhesion and good viscosity temperature characteristics. Ideal as a loss lubricating oil for open lubrication points.	68	8.6	>210	<-9	884		on request



# INDUSTRIAL OILS AND GREASES

## SPECIAL PRODUCTS

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LUKOIL



CANNON  
POSTERIOR-FLANGE-DESIGN

350  
754C

CANNON

151  
369

350  
750C

CANNON

350  
750C

350  
750C

CANNON  
POSTERIOR-FLANGE-DESIGN

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	Type of pack
<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 (Konz.)	–	>225	<-18	923		60l 205l
<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		205l 1000l
<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.	180	16.5	>255	<-9	891		1000l
<b>LUKOIL LAYER BS4</b> Prod. no.: 580561		180	16.2	>245	<-12	891		1000l

## ▼ 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	Type of pack
<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		205l
<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		60l 205l

## ▼ 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	Type of pack
<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	MEETS REQUIREMENTS A: ÖVE/ÖNORM EN 60296 BRD: DIN EN 60296/VDE 0370-1 USA: ASTM D 3487 GB: BS 148 R: SN 656845 H: MSZ 153/3 International: IEC 60296	205l



## ▼ 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	Type of pack
<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	MEETS REQUIREMENTS DIN 51506-VB and -VBL DIN 515517-CL DIN 51524-HL VDMA 24318-HL SEB 181 222 Failure load level DIN ISO 14635-1 A/8,3/90-M:9 For screw compressors corresponds LUKOIL ROUND 32 and 46 ISO / DIS 6521 -L-DAA and ISO-L-DAB	205l
<b>LUKOIL ROUND 22</b> Prod. no.: 573065		22	4.3	>190	<-33	865		205l
<b>LUKOIL ROUND 32</b> Prod. no.: 573070		32	5.3	>205	<-18	874		205l
<b>LUKOIL ROUND 46</b> Prod. no.: 573075		46	6.9	>215	<-15	874		205l
<b>LUKOIL ROUND 68</b> Prod. no.: 573080		68	8.9	>220	<-12	879		205l
<b>LUKOIL ROUND 100</b> Prod. no.: 573085		100	11.4	>245	<-12	884		205l
<b>LUKOIL ROUND 150</b> Prod. no.: 573090		150	14.4	>250	<-9	889		205l
<b>LUKOIL ROUND 220</b> Prod. no.: 573095		220	18.8	>250	<-9	894		205l
<b>LUKOIL ROUND 320</b> Prod. no.: 573100		320	24.6	>250	<-9	894		205l
<b>LUKOIL ROUND 460</b> Prod. no.: 573105		460	29.1	>255	<-9	904		205l



## ▼ 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	Type of pack
<b>LUKOIL INTEGO 150</b> Prod. no.: 572370	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.	150	14.3	>230	<-15	892	MEETS REQUIREMENTS Lubricating oils DIN 51517-CL Lubricating oils DIN 51501-L-AN Lubricating oils DIN 51502-H	on request
<b>LUKOIL INTEGO 220</b> Prod. no.: 572360		220	18.9	>240	<-12	897		on request
<b>LUKOIL INTEGO 320</b> Prod. no.: 572355		320	23.1	>250	<-9	899		on request
<b>LUKOIL INTEGO 460</b> Prod. no.: 572350		460	30.1	>260	<-9	904		on request
<b>LUKOIL LUBE P 15</b> Prod. no.: 573002	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	Lubricating oils DIN 51517-C Lubricating oils DIN 51501-L-AN Lubricating oils DIN 51502-H	205l
<b>LUKOIL LUBE P 32</b> Prod. no.: 573004		32	5.5	>220	<-12	868		205l
<b>LUKOIL LUBE P 46</b> Prod. no.: 573005		46	6.5	>220	<-12	874		205l
<b>LUKOIL LUBE P 68</b> Prod. no.: 573008		68	8.6	>235	<-12	880		205l
<b>LUKOIL LUBE P 100</b> Prod. no.: 573010		100	11.0	>250	<-12	883		205l
<b>LUKOIL LUBE P 150</b> Prod. no.: 573020		150	14.5	>250	<-12	890		205l
<b>LUKOIL LUBE P 220</b> Prod. no.: 573040		220	18.7	>260	<-12	896		205l
<b>LUKOIL LUBE P 320</b> Prod. no.: 573045		320	24.5	>280	<-9	900		205l
<b>LUKOIL LUBE P 460</b> Prod. no.: 573050		460	31.6	>300	<-9	904		205l

▼ 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	Type of pack
<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	MEETS REQUIREMENTS Heat transfer fluid DIN 51522-Q	205l
<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		20l

▼ 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	Type of pack
<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	MEETS REQUIREMENTS USP XXIII DAB 10 FDA 178.3570	60l 205l
<b>LUKOIL WHITE 32</b> Prod. no.: 579087		32	5.6	>200	<-18	857		60l 205l
<b>LUKOIL WHITE 46</b> Prod. no.: 579089		46	6.7	>195	<-18	861		60l 205l
<b>LUKOIL WHITE 68</b> Prod. no.: 579090		68	8.5	>220	<-15	870		60l 205l



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Data subject to change.



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