

LUBRICANTS FOR INDUSTRIAL APPLICATIONS

EFFORCE | GEYSER | ROUND | STABIO | STEELO | TORNADO
And many more.

ALWAYS MOVING FORWARD.

■ HYDRAULICOILS

LUKOIL GEYSER ST	6
LUKOIL GEYSER M	
LUKOIL GEYSER MVI	7
LUKOIL GEYSER LT	
LUKOIL GEYSER POLAR 32	8
LUKOIL GEYSER ZF	
LUKOIL GEYSER MZF	9
LUKOIL GEYSER DZF	
LUKOIL GEYSER MD ZF	10
LUKOIL GEYSER MD	
LUKOIL GEYSER S	
LUKOIL GEYSER SZF	11
LUKOIL GEYSER BIO S	
LUKOIL GEYSER HFDU	12

■ INDUSTRIAL TRANSMISSIONOILS

LUKOIL STEELO IGT	
LUKOIL STEELO HST	14
LUKOIL STEELO S	
LUKOIL STEELO PG	15
LUKOIL STEELO BIO S	16

■ TURBINEOILS

LUKOIL TORNADO S	
LUKOIL TORNADO SEP	
LUKOIL TORNADO SNH	18
LUKOIL TORNADO	
LUKOIL TORNADO EP	
LUKOIL TORNADO EP-AS	19
LUKOIL TORNADO AQUA	
LUKOIL TURBOFRESH	20

■ COMPRESSOROILS

LUKOIL STABIO VDL	
LUKOIL STABIO	
LUKOIL STABIO D	22
LUKOIL STABIO S	
LUKOIL STABIO PG	
LUKOIL STABIO SRK	23

■ CIRCULATING OILS

LUKOIL INTEG0	
LUKOIL ROUND	24
LUKOIL LUBE P	
LUKOIL LUBE PX	25

GAS-POWERED ENGINE OIL

LUKOIL EFFORCE 27

FORMWORK AND RELEASE OILS

LUKOIL LAYER 29

LUKOIL KORREX

LUKOIL BIOFLUID 30

LOSS LUBRICATION

LUKOIL BIOSEGAROL E 100

LUKOIL CHAINSAW

LUKOIL BIOCHAIN

LUKOIL CHAIN 32

LUKOIL LUBE GF

LUKOIL AIR 100 33

SPECIAL PRODUCTS

LUKOIL TRAFO IEC II

LUKOIL THERMO 32

LUKOIL THERMOCLEAN

LUKOIL WHITE 35

LUKOIL ZMO-SPRAY

LUKOIL KORREX EK 15W-40 36

COOLING LUBRICANTS (water-miscible)

LUKOIL MIXCUT GR PREMIUM

LUKOIL MIXCUT GRX

LUKOIL MIXCUT AL

LUKOIL MIXCUT UN PREMIUM

LUKOIL MIXCUT UNX 38

METAL MACHINING OILS

LUKOIL CUT XU

LUKOIL CUT YU

LUKOIL SUPERGRIND

LUKOIL GRIND YEL-MÖST

LUKOIL DRILL DL 40

LUKOIL DRAW YU 200

LUKOIL ASSISTO

LUKOIL SLIDO NT 41

LUKOIL – AND THE FUTURE CAN COME

Faster – further – better. The business environment for European companies has changed significantly in recent years.

International competition has become more intense and, with falling margins, the quality factor is becoming increasingly important as a distinguishing feature. At LUKOIL Lubricants we have always considered top quality in products, variety and customer service as one of the central future concepts of our company.

AND OUR SUCCESS PROVES US RIGHT.

QUALITY MADE IN AUSTRIA

Lubricants are produced from first-class raw materials using innovative technologies in our state-of-the-art production facilities in Wiener Lobau, Finland and Romania.

COMPREHENSIVE CUSTOMER SERVICE

Customer service is the primary objective of our daily work and is guaranteed at all times by our highly trained customer service representatives and technicians. Our employees communicate closely with our customers in order to gain a better understanding of their individual problems, so they can offer prompt, tailor-made solutions.

Aside from new products, these could include solutions from the areas of waste recycling, packaging, marketing, logistics and process optimisation.

SHORT TRANSPORT DISTANCES

The ideal location of our European production facilities enables our experienced logistics team to transport our products to our customers efficiently and rapidly, thus offering on-time delivery.



HYDRAULIC COILS

HYDRAULIC OILS, MINERAL

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER ST 10 <i>Prod. no.: 572510</i> LUKOIL GEYSER ST 22 <i>Prod. no.: 572520</i> LUKOIL GEYSER ST 32 <i>Prod. no.: 572530</i> LUKOIL GEYSER ST 46 <i>Prod. no.: 572540</i> LUKOIL GEYSER ST 68 <i>Prod. no.: 572550</i> LUKOIL GEYSER ST 100 <i>Prod. no.: 572560</i>	<ul style="list-style-type: none"> ■ LUKOIL GEYSER ST is a high-quality mineral hydraulic oil with advanced additive technology. The well balanced formulation offers the best corrosion protection, rapid air separation and low foaming tendency. ■ LUKOIL GEYSER ST is suitable for use in hydraulic drives, lifting systems and balers according to manufacturer's specifications. Thanks to its excellent wear protection properties, this product is also suitable as a lubricating oil for spur gears or as a circulating lubricating oil for plain and rolling bearings.

APPROVALS/SPECIFICATIONS

GEYSER ST 10

EATON VICKERS E-FDGN-TB002-E; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-2 (HLP); **ISO** 11158 (L-HM), 6743-4 (L-HM); **AIST** 126, 127; **ASTM** D 6158 (HM); **DANIELI**; **EATON** Brochure 03-401-2010; **GB** 11118.1-2011; **GM** LS-2; **GMS** group; **JCMAS** HK P-041; **KVANTA**; **NASOSY** PPD; **PALFINGER**; **SAE** MS 1004; **SEB** 181 222; **SULZER** Pumps; **TMT**; **VDMA** 24318 (HLP)

GEYSER ST 22

EATON VICKERS E-FDGN-TB002-E; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-2 (HLP); **ISO** 11158 (L-HM), 6743-4 (L-HM); **AFNOR** NF E 48603 (HM); **AIST** 126, 127; **ASTM** BS 6580, D 6158 (HM); **DANIELI** 0.000.001; **EATON** Brochure 03-401-2010; **GB** 11118.1-2011; **GM** LS-2; **GMS** group; **JCMAS** HK P-041; **KVANTA**; **NASOSY** PPD; **PALFINGER**; **SAE** MS 1004; **SMS** group SN 180-2; **SULZER** Pumps; **TMT**; **VDMA** 24318 (HLP); **Voith**

GEYSER ST 32

BOSCH REXROTH RD 90220, RDE 90235; **EATON VICKERS** E-FDGN-TB002-E, I-286-S, M-2950-S; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-2 (HLP); **ISO** 11158 (L-HM), 6743-4 (L-HM); **AGMA** 9005-E02; **AIST** 126, 127; **ASTM** D 6158 (HM); **CINCINNATI** Machine/ **MILACRON/** **MAG** (FIVES) P-68; **DANIELI**; **DRESSTA**; **DUPLOMATIC**; **EATON** Brochure 03-401-2010; **FURUKAWA** UNIC; **GB** 11118.1-2011; **GM** LS-2; **GMS** group; **JCMAS** HK, HK P-041; **JOY MINING MACHINERY**; **KOPEX MACHINERY**; **KOPPERN**; **KVANTA**; **METSO**; **NASOSY** PPD; **PALFINGER**; **PRIMETALS** TECHNOLOGIES; **SACMI**; **SAE** MS 1004; **SANY** Heavy Industry; **SCHULER**; **SEB** 181 222; **SMS** group SN 180-2; **SMT** SCHARF; **SULZER** Pumps; **thyssenkrupp** Industrial Solutions; **TMT**; **VDMA** 24318 (HLP); **Voith**, Turbo; **WOOJIN** SELEX

GEYSER ST 46

BOSCH REXROTH RD 90220, RDE 90235; **EATON VICKERS** E-FDGN-TB002-E, I-286-S; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-2 (HLP); **ISO** 11158 (L-HM), 6743-4 (L-HM); **AIST** 126, 127; **ALTA**; **ARBURG**; **ASTM** D 6158 (HM); **AUTOMA**; **AVERMANN**; **BATTENFELD**; **CINCINNATI** Machine/ **MILACRON/** **MAG** (FIVES) P-70; **CMC-TEXPAN**; **DANIELI** 0.000.001; **DIEFFENBACHER**; **DRESSTA**; **DUPLOMATIC**; **EATON** Brochure 03-401-2010; **EICKHOFF**; **ENGEL**; **FELUWA** Pumpen; **FERRIT**; **FLSmidth** MAAG; **GB** 11118.1-2011; **GM** LS-2; **GMS** group; **HAITIAN**; **HUSKY** HS 207; **HYDAC** International; **JCMAS** HK, HK P-041; **JOY MINING MACHINERY**; **KOPEX MACHINERY**; **KRAUSS MAFFEI BERSTORFF**; **KVANTA**; **LAEIS**; **LOESCHE**; **METSO**; **NASOSY** PPD; **PALFINGER**; **PRIMETALS** TECHNOLOGIES; **SACMI**; **SAE** MS 1004; **SANY** Heavy Industry; **SCHULER**; **SEB** 181 222; **SMS** group SN 180-2; **SIEMAG**; **SMT** SCHARF; **STORK** IMM; **SULZER** Pumps; **SUMITOMO** SHI DEMAG; **thyssenkrupp** Industrial Solutions; **TMT**; **UNILOY** MALACRON; **VDMA** 24318 (HLP); **Voith**, Turbo; **WAFIOS**; **WOOJIN** SELEX; **ZF** TE-ML 07H

GEYSER ST 68

BOSCH REXROTH RD 90220, RDE 90235; **EATON VICKERS** E-FDGN-TB002-E, I-286-S, M-2950-S; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-2 (HLP); **ISO** 11158 (L-HM), 6743-4 (L-HM); **AGMA** 9005-E02; **AIST** 126, 127; **ANDREAS HOFER**; **ASTM** D 6158 (HM); **CINCINNATI** Machine/ **MILACRON/** **MAG** (FIVES) P-69; **DANIELI** 0.000.001; **DRESSTA**; **DUPLOMATIC**; **EATON** Brochure 03-401-2010; **EICKHOFF**; **FELUWA** Pumpen; **FLSmidth** MAAG; **GB** 11118.1-2011; **GM** LS-2; **GMS** group; **JCMAS** HK P-041; **JOY MINING MACHINERY**; **KOPEX MACHINERY**; **KRAUSS MAFFEI BERSTORFF**; **KVANTA**; **LOESCHE**; **METSO**; **NASOSY** PPD; **PALFINGER**; **PRIMETALS** TECHNOLOGIES; **SACMI**; **SAE** MS 1004; **SANY** Heavy Industry; **SCHULER**; **SEB** 181 222; **SMS** group SN 180-2; **SULZER** Pumps; **thyssenkrupp** Industrial Solutions; **TMT**; **TURBONASOS**; **VDMA** 24318 (HLP); **ZF** TE-ML 07H

GEYSER ST 100

BOSCH REXROTH RD 90220; **EATON VICKERS** E-FDGN-TB002-E, I-286-S, M-2950-S; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-2 (HLP); **ISO** 11158 (L-HM), 6743-4 (L-HM); **AGMA** 9005-E02; **AIST** 126, 127; **ASTM** D 6158 (HM); **CINCINNATI** Machine/ **MILACRON/** **MAG** (FIVES) P-76; **DANIELI**; **DRESSTA**; **DUPLOMATIC**; **EATON** Brochure 03-401-2010; **EICKHOFF**; **GB** 11118.1-2011; **GM** LS-2; **GMS** group; **JCMAS** HK P-041; **JOY MINING MACHINERY**; **KVANTA**; **METSO**; **NASOSY** PPD; **PALFINGER**; **PRIMETALS** TECHNOLOGIES; **SACMI**; **SAE** MS 1004; **SANY** Heavy Industry; **SCHULER**; **SEB** 181 222; **SULZER** Pumps; **TMT**; **VDMA** 24318 (HLP); **ZF** TE-ML 07H

HYDRAULIC OILS

HYDRAULIC OILS, MINERAL, MULTI-GRADE

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER M 15 Prod. no.: 572620 LUKOIL GEYSER M 32 Prod. no.: 572630 LUKOIL GEYSER M 46 Prod. no.: 572640 LUKOIL GEYSER M 68 Prod. no.: 572680	<ul style="list-style-type: none"> ■ LUKOIL GEYSER M is a high-quality mineral, multi-grade, hydraulic oil with advanced additive technology. The well balanced formulation offers the best wear and corrosion protection, rapid air separation capacity and low foaming tendency. ■ LUKOIL GEYSER M has been developed for heavy-duty outdoor hydraulic systems that are exposed to considerable temperature fluctuations.

APPROVALS/SPECIFICATIONS

GEYSER M 15

BOSCH REXROTH RD 90220, RDE 90235; **EATON VICKERS** E-FDGN-TB002-E; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-3 (HVLP); **ISO** 11158 (L-HV), 6743-4 (L-HV); **AIST** 126, 127; **ASTM** D 6158 (HV); **EATON** Brochure 03-401-2010; **GB** 11118.1-2011; **GM** LS-2; **JCMAS** HK P-041; **PALFINGER**; **SAE** MS 1004 (HV); **SEB** 181 222; **VDMA** 24318 (HVLP)

GEYSER M 32

BOSCH REXROTH RD 90220, RDE 90235; **EATON VICKERS** E-FDGN-TB002-E; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-3 (HVLP); **ISO** 11158 (L-HV), 6743-4 (L-HV); **AIST** 126, 127; **ASTM** D 6158 (HV); **CINCINNATI** Machine/ **MILACRON/ MAG** (FIVES) P-68; **EATON** Brochure 03-401-2010; **GB** 11118.1-2011; **GM** LS-2; **JCMAS** HK P-041; **PALFINGER**; **SAE** MS 1004 (HV); **SEB** 181 222; **VDMA** 24318 (HVLP)

GEYSER M 46

BOSCH REXROTH RD 90220, RDE 90235; **EATON VICKERS** E-FDGN-TB002-E; **PARKER DENISON** HF-0, HF-1, HF-2; **U.S. STEEL** 126, 127; **DIN** 51524-3 (HVLP); **ISO** 11158 (L-HV), 6743-4 (L-HV); **AIST** 126, 127; **ASTM** D 6158 (HV); **CINCINNATI** Machine/ **MILACRON/ MAG** (FIVES) P-70; **EATON** Brochure 03-401-2010; **GB** 11118.1-2011; **GM** LS-2; **JCMAS** HK, HK P-041; **PALFINGER**; **SAE** MS 1004 (HV); **SEB** 181 222; **VDMA** 24318 (HVLP); **ZF** TE-ML 07H

GEYSER M 68

BOSCH REXROTH RD 90220, RDE 90235; **EATON VICKERS** E-FDGN-TB002-E; **PARKER DENISON** HF-0, HF-1, HF-2; **U.S. STEEL** 126, 127; **DIN** 51524-3 (HVLP); **ISO** 11158 (L-HV), 6743-4 (L-HV); **AIST** 126, 127; **ASTM** D 6158 (HV); **CINCINNATI** Machine/ **MILACRON/ MAG** (FIVES) P-69; **EATON** Brochure 03-401-2010; **GB** 11118.1-2011; **GM** LS-2; **JCMAS** HK, HK P-041; **PALFINGER**; **SAE** MS 1004 (HV); **SEB** 181 222; **VDMA** 24318 (HVLP); **ZF** TE-ML 07H

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER MVI 32 Prod. no.: 572632	<ul style="list-style-type: none"> ■ LUKOIL GEYSER MVI 32 is a high quality special hydraulic oil with very low viscosity-temperature dependence and optimum low temperature properties. ■ LUKOIL GEYSER MVI 32 was developed especially for farm cranes. This makes it much easier to start up hydraulic units at low temperatures.
APPROVALS/SPECIFICATIONS	
DIN 51524-3 (HVLP); VDMA 24318 (HVLP)	

HYDRAULIC OILS, MINERAL, MULTI-GRADE

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER LT 22 Prod. no.: 572850 LUKOIL GEYSER LT 32 Prod. no.: 572855 LUKOIL GEYSER LT 46 Prod. no.: 572860	<ul style="list-style-type: none"> ■ LUKOIL GEYSER LT is a high-quality multi-grade hydraulic oil based on highly refined base oils in combination with advanced additive technology. Due to its extremely low viscosity-temperature dependence and excellent low-temperature flow behaviour, this oil is ideal for year-round use. ■ LUKOIL GEYSER LT is specially designed for operating machines at very low or very high temperatures. LUKOIL GEYSER LT is used, for example, in forestry, earth moving machinery and mobile hydraulic systems.

APPROVALS/SPECIFICATIONS

GEYSER LT 22

EATON VICKERS E-FDGN-TB002-E, I-286-S, M-2950-S; **DIN** 51524-3 (HVLP); **ISO** 11158 (L-HM), 11158 (L-HV), 6743-4 (L-HV); **ASTM** D 6158 (HM), D 6158 (HV); **BELAZ**; **DRESSTA**; **GM** LS-2; **MANTSINEN**; **PALFINGER**; **SAE** MS 1004; **SENNEBOGEN**; **SMT SCHARF**; **SULZER** Pumps; **SWEDISH STANDARD** SS 15 54 34

GEYSER LT 32

BOSCH REXROTH RD 90220, RDE 90235, RDE 90245; **EATON VICKERS** 35VQ25, I-286-S, M-2950-S; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-3 (HVLP); **ISO** 11158 (L-HM), 11158 (L-HV), 6743-4 (L-HV); **AGMA** 9005-E02; **AIST** 126, 127; **AMCO** VEBA; **ASTM** D 6158 (HM), D 6158 (HV); **CINCINNATI** Machine/ **MILACRON/ MAG (FIVES)** P-68; **GM** LS-2; **KOPEX MACHINERY**; **METSO**; **PALFINGER**; **SAE** MS 1004; **SEB** 181 222; **SMT SCHARF**; **SULZER** Pumps; **SWEDISH STANDARD** SS 15 54 34; **thyssenkrupp Industrial Solutions**

GEYSER LT 46

BOSCH REXROTH RD 90220, RDE 90235, RDE 90245; **EATON VICKERS** I-286-S, M-2950-S; **PARKER DENISON** HF-0, HF-1, HF-2; **DIN** 51524-3 (HVLP); **ISO** 11158 (L-HM), 11158 (L-HV), 6743-4 (L-HV); **AGMA** 9005-E02; **AIST** 126, 127; **ASTM** D 6158 (HM), D 6158 (HV); **CINCINNATI** Machine/ **MILACRON/ MAG (FIVES)** P-70; **FERRIT**; **FURUKAWA UNIC**; **GM** LS-2; **HAEUSLER**; **JOY MINING MACHINERY**; **KOPEX MACHINERY**; **PALFINGER**; **SAE** MS 1004; **SEB** 181 222; **Siemens**; **SMT SCHARF**; **SULZER** Pumps; **SWEDISH STANDARD** SS 15 54 34; **thyssenkrupp Industrial Solutions**

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER POLAR 32 Prod. no.: 572830	<ul style="list-style-type: none"> ■ Special high quality hydraulic fluid with extremely low viscosity-temperature dependency and thus, excellent low temperature properties ■ They combine quick air release and demulsibility, low foaming tendency and excellent corrosion protection. ■ LUKOIL GEYSER POLAR 32 series are compatible with all commonly used elastomers. They cover various viscosity classes and thus contribute to an improved storage efficiency.

APPROVALS/SPECIFICATIONS

DIN 51524-3 (HVLP); **ISO** 6743-4 (L-HV); **MIL-F-17111A** 8/73+Amendment 1 6/74; **NATO** Code H-575; **PALFINGER**; **SMT SCHARF**; **thyssenkrupp Industrial Solutions**; **VDMA** 24318 (HVLP)

HYDRAULIC OILS

HYDRAULIC OILS, MINERAL, ASH-FREE

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER ZF 32 Prod. no.: 572535 LUKOIL GEYSER ZF 46 Prod. no.: 572546 LUKOIL GEYSER ZF 68 Prod. no.: 572555	<ul style="list-style-type: none"> ■ <i>LUKOIL GEYSER ZF is a high-quality mineral hydraulic oil with advanced zinc-free additive technology. The balanced, low-ash formulation offers the best wear and corrosion protection, rapid air separation capacity and low foaming tendency.</i> ■ <i>LUKOIL GEYSER ZF is perfectly suitable for use in hydraulic systems where „ash-free“ hydraulic oils are specified, according to the manufacturer’s specifications. This product is suitable for use in screw-type compressors.</i>
APPROVALS/SPECIFICATIONS	
GEYSER ZF 32 BOSCH REXROTH RD 90220; EATON VICKERS E-FDGN-TB002-E, M-2950-S; PARKER DENISON HF-0, HF-1, HF-2; DIN 51524-2 (HLP); ISO 20763, 6743-4 (L-HM); ASTM D 6158 (HM); CINCINNATI Machine/ MILACRON/ MAG (FIVES) P-68; GM LS-2 ; SAE MS 1004 ; SCHULER ; SMS group SN 180-2 ; thyssenkrupp Industrial Solutions ; VDMA 24318 (HLP); Voith Turbo ; WOOJIN PLAIMM	
GEYSER ZF 46 BOSCH REXROTH RD 90220; EATON VICKERS E-FDGN-TB002-E, M-2950-S; PARKER DENISON HF-0, HF-1, HF-2; DIN 51524-2 (HLP); ISO 20763, 6743-4 (L-HM); ALTA ; ASTM D 6158 (HM); AUTOMA ; CINCINNATI Machine/ MILACRON/ MAG (FIVES) P-70; DANIELI 0.000.001; GM LS-2 ; KRAUSS MAFFEI BERSTORFF ; SAE MS 1004 ; SCHULER ; Siemens ; SMS group SN 180-2 ; SULZER Pumps ; VDMA 24318 (HLP); WOOJIN PLAIMM	
GEYSER ZF 68 BOSCH REXROTH RD 90220; EATON VICKERS E-FDGN-TB002-E, M-2950-S; PARKER DENISON HF-0, HF-1, HF-2; DIN 51524-2 (HLP); ISO 20763, 6743-4 (L-HM); ASTM D 6158 (HM); CINCINNATI Machine/ MILACRON/ MAG (FIVES) P-69; DANIELI 0.000.001; GM LS-2 ; KRAUSS MAFFEI BERSTORFF ; SAE MS 1004 ; SCHULER ; Siemens ; SUMITOMO SHI DEMAG ; VDMA 24318 (HLP); WOOJIN PLAIMM	

HYDRAULIC OILS, MINERAL, MULTI-GRADE, ASH-FREE

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER MZF 15 Prod. no.: 572650 LUKOIL GEYSER MZF 32 Prod. no.: 572652 LUKOIL GEYSER MZF 46 Prod. no.: 572653 LUKOIL GEYSER MZF 68 Prod. no.: 572654	<ul style="list-style-type: none"> ■ <i>LUKOIL GEYSER MZF is a high-quality, mineral, zinc-free, multi-grade hydraulic oil with advanced additive technology. The balanced, low-ash formulation offers the best wear and corrosion protection, rapid air separation capacity and low foaming tendency</i> ■ <i>According to the manufacturer’s specifications, LUKOIL GEYSER MZF is excellently suited for use in hydraulic systems in which „ash-free“ hydraulic oils are specified. This product is especially recommended for use in hydraulic systems that are subject to high thermal stress, such as in the blast furnaces of steelworks.</i>
APPROVALS/SPECIFICATIONS	
GEYSER MZF 15 DIN 51524-3 (HVLPL); ISO 6743-4 (L-HV); SEB 181 222-66; VDMA 24318 (HVLPL)	
GEYSER MZF 32 DIN 51524-3 (HVLPL); ISO 6743-4 (L-HV); SEB 181 222-66; VDMA 24318 (HVLPL)	
GEYSER MZF 46 DIN 51524-3 (HVLPL); ISO 6743-4 (L-HV); SEB 181 222-66; VDMA 24318 (HVLPL)	
GEYSER MZF 68 DIN 51524-3 (HVLPL); ISO 6743-4 (L-HV); SEB 181 222-66; VDMA 24318 (HVLPL)	

HYDRAULIC OILS, MINERAL, ASH-FREE, DETERGENT

PRODUCT NAME	DESCRIPTION
<p>LUKOIL GEYSER DZF 22 Prod. no.: 572740</p> <p>LUKOIL GEYSER DZF 32 Prod. no.: 572750</p> <p>LUKOIL GEYSER DZF 46 Prod. no.: 572760</p>	<ul style="list-style-type: none"> ■ <i>LUKOIL GEYSER DZF is a high-quality, mineral, zinc-free hydraulic oil with advanced additive technology. This product's detergent properties make it ideal for use, as specified by the manufacturer, in hydraulic systems with a high dirt load. The cleaning properties reliably combat system contamination and deposit formation. The balanced, low-ash formulation offers the best wear and corrosion protection, rapid air separation capacity and low foaming tendency.</i> ■ <i>LUKOIL GEYSER DZF is used as a highly loadable hydraulic oil in heavy-duty, machine tools hydraulic systems, in hydromechanical drives of construction machines, forklifts or commercial vehicles and in shears and balers. LUKOIL GEYSER DZF is used as gear oil for spur gears or as circulation oil for sliding and roller bearings.</i>
APPROVALS/SPECIFICATIONS	
<p>GEYSER DZF 22 <i>DIN 51502 (HLPD), 51517-3 (CLP), 51524-2 (HLP); ISO 11158 (L-HM); DBL 6721.00</i></p> <p>GEYSER DZF 32 <i>DIN 51502 (HLPD), 51517-3 (CLP), 51524-2 (HLP); ISO 11158 (L-HM); DBL 6721.00; thyssenkrupp Industrial Solutions</i></p> <p>GEYSER DZF 46 <i>DIN 51502 (HLPD), 51517-3 (CLP), 51524-2 (HLP); ISO 11158 (L-HM); DBL 6721.00; thyssenkrupp Industrial Solutions</i></p>	
<p>LUKOIL GEYSER MD ZF 46 Prod. no.: 572792</p>	<ul style="list-style-type: none"> ■ <i>The balanced formulation of LUKOIL GEYSER MD ZF 46 guarantees excellent wear protection, as well as very good thermal and oxidative stability, even in mixed friction areas. The pronounced multi-grade characteristic due to a high viscosity index ensures low viscosity-temperature dependence and enables a low-wear and energy-saving start-up. Because of its very good dispersing properties, the absorption of free water is possible. Thanks to its neutral behaviour in relation to commercially available sealing materials, extremely good filterability and the absence of heavy metals and silicone, it can be used in many applications.</i> ■ <i>LUKOIL GEYSER MD ZF 46 is ideally suited for use in stationary or mobile hydraulic systems that are exposed to a wide temperature range or where water ingress and dirt contamination can be expected. This occurs, for example, in hydromechanical drives of construction machinery, forklifts or commercial vehicles as well as in shears, shredders and balers.</i>
APPROVALS/SPECIFICATIONS	
<p>GEYSER MD ZF 46 <i>DIN 51502 (HLPD), 51502 (HVLP), 51502 (HVLDP), 51517-3 (CLP), 51524-3 (HVLP); ISO 6743-4 (L-HV)</i></p>	

HYDRAULIC OILS

HYDRAULIC OILS, MINERAL, MULTI-GRADE, DETERGENT

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER MD 46 <i>Prod. no.: 572780</i>	<ul style="list-style-type: none">■ <i>LUKOIL GEYSER MD 46 is a high-quality mineral, multi-grade, hydraulic oil with advanced additive technology for heavy duty use. The well balanced formulation offers the best wear and corrosion protection, rapid air separation capacity and low foaming tendency. The detergent properties reliably combat system contamination and deposit formation.</i>■ <i>This product's detergent properties make it ideal for use in hydraulic systems with a high dirt load, for example in construction machinery, commercial vehicles, shears and balers.</i>
APPROVALS/SPECIFICATIONS	
GEYSER MD 46 <i>DIN 51502 (HVLDP), 51524-3 (HVLDP)</i>	

HYDRAULIC OILS, SYNTHETIC

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER S 46 <i>Prod. no.: 572731</i>	<ul style="list-style-type: none">■ <i>LUKOIL GEYSER S 46 is a high-quality synthetic hydraulic oil with advanced additive technology. The balanced formulation offers the best wear and corrosion protection, rapid air separation capacity, low foaming tendency and ensures optimum oil change intervals.</i>■ <i>LUKOIL GEYSER S 46 is excellently suited for use in hydraulic drives, lifting systems and balers, according to manufacturer's specifications. This product is also ideally suited for long-term use under very high thermal loads in hydraulic systems, compressors and circulation systems.</i>
APPROVALS/SPECIFICATIONS	
GEYSER S 46 <i>DIN 51524-2 (HLPD), 51524-2 (HLP-HC); ISO 6743-4 (L-HS); ARBURG; ENGEL; PALFINGER; SEB 181 222-66; VDMA 24318 (HLP)</i>	

HYDRAULIC OILS, SYNTHETIC, ASH-FREE

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER SZF 46 <i>Prod. no.: 572721</i>	<ul style="list-style-type: none">■ <i>LUKOIL GEYSER SZF 46 is a high-quality, synthetic, zinc-free hydraulic oil with advanced additive technology. The balanced, low-ash formulation offers the best wear and corrosion protection as well as a low foaming tendency. Due to its good air separation capacity, it is particularly suitable for systems with short circulation times, considerably reducing the risk of cavitation occurrence.</i>■ <i>LUKOIL GEYSER SZF 46 is, according to manufacturer's specifications, excellently suited for use in hydraulic drives, lifting systems and balers. This product is also ideally suited for long-term use under very high thermal loads in hydraulic systems, compressors and circulation systems.</i>
APPROVALS/SPECIFICATIONS	
GEYSER SZF 46 <i>DIN 51524-2 (HLP); ISO 6743-4 (L-HS); ÖNORM C 2027-3; SALVAGNINI; SEB 181 222-66; VDMA 24318 (HLP)</i>	

HYDRAULIC OILS, RAPID BIO-DEGRADATION

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER BIO S 15 <i>Prod. no.: 572691</i> LUKOIL GEYSER BIO S 32 <i>Prod. no.: 572692</i> LUKOIL GEYSER BIO S 46 <i>Prod. no.: 572693</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL GEYSER BIO S is a high-quality, synthetic, zinc-free and rapid bio-degradation hydraulic oil based on saturated synthetic esters and advanced additive technology. The balanced, low-ash formulation is the basis for optimum oil change intervals and offers the best wear and corrosion protection, rapid air separation capacity and low foaming tendency with the lowest possible environmental impact.</i> ■ <i>LUKOIL GEYSER BIO S is mainly used for heavy-duty hydraulic systems and equipment in agriculture and forestry, in the construction industry, in winter sports regions and at weirs.</i> ■ <i>When converting from mineral-based to rapidly biodegradable hydraulic oil, we emphatically recommend that you follow the conversion guidelines enclosed with the product data sheet!</i>

APPROVALS/SPECIFICATIONS

GEYSER BIO S 15

ÖNORM C 1158: >90%, C 2027 (HEES); **PALFINGER; VDMA 24568 (HEES)**

GEYSER BIO S 32

DIN ISO 15380 (HEES); ÖNORM C 1158: >90%, C 2027 (HEES); **PALFINGER; thyssenkrupp Industrial Solutions; VDMA 24568 (HEES)**

GEYSER BIO S 46

DIN ISO 15380 (HEES); ÖNORM C 1158: >90%, C 2027 (HEES); **PALFINGER; VDMA 24568 (HEES)**

HYDRAULIC OILS, FLAME-RESISTANT

PRODUCT NAME	DESCRIPTION
LUKOIL GEYSER HFDU 46 <i>Prod. no.: 572930</i> LUKOIL GEYSER HFDU 68 <i>Prod. no.: 572932</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL GEYSER HFDU is a flame-retardant hydraulic fluid based on polyol ester, meeting the highest requirements for the HFD type.</i> ■ <i>LUKOIL GEYSER HFDU offers outstanding safety against fire (combustion point 370 °C), excellent wear protection, distinct multi-grade character due to a very high viscosity index, very good corrosion protection and the best material compatibility with steel and non-ferrous metals. This product is characterised by excellent ageing stability, good foam and air separation behaviour and favourable behaviour with regard to paints and sealing materials (based on fluororubber, for example Viton). It is compatible with the workplace and the environment on account of its good medical-toxicological rating compared with phosphoric acid esters. The product is also rapidly biodegradable.</i> ■ <i>LUKOIL GEYSER HFDU is suitable for filling hydraulic systems, for lubricating slide and roller bearings, for use in light metal die-casting machines, furnace and fire doors, scarfing machines, in metallurgical plants, rolling mills, foundries and forges over a wide thermal range of applications and in tunnel construction.</i>

APPROVALS/SPECIFICATIONS

GEYSER HFDU 46

DIN 51502 (HFDU); DANIELI 0.000.001; ÖNORM C 2027 (HEES); PAUL WURTH; SMS group SN 180-2; VDMA 24568 (HEES)

GEYSER HFDU 68

DIN 51502 (HFDU); DANIELI 0.000.001; ÖNORM C 2027 (HEES); SMS group SN 180-2; VDMA 24568 (HEES)



INDUSTRIAL TRANSMISSION OILS

INDUSTRIAL TRANSMISSION OILS, MINERAL

PRODUCT NAME	DESCRIPTION
LUKOIL STEELO IGT 150 Prod. no.: 580111 LUKOIL STEELO IGT 220 Prod. no.: 580112 LUKOIL STEELO IGT 320 Prod. no.: 580113	<ul style="list-style-type: none"> ■ Mineral industrial gear oil with EP additives (Extreme Pressure) ■ LUKOIL STEELO IGT ensures adequate lubrication even under high loads. The excellent foaming behaviour and the low viscosity-temperature dependency enable secure operation. ■ The industrial gear oil has good corrosion protection and is neutral to steel, non-ferrous metals, and sealing materials.
APPROVALS/SPECIFICATIONS	
DIN 51517-3 (CLP); ISO 12925-1 (L-CKD); AGMA 9005-F16; AIST 224; DAVID BROWN S1.53.101; GB 5903-2011 (CKD); JIS K 2219:2006	

LUKOIL STEELO HST 68 Prod. no.: 579105 LUKOIL STEELO HST 100 Prod. no.: 579112 LUKOIL STEELO HST 150 Prod. no.: 579114 LUKOIL STEELO HST 220 Prod. no.: 579122 LUKOIL STEELO HST 320 Prod. no.: 579132 LUKOIL STEELO HST 460 Prod. no.: 579150 LUKOIL STEELO HST 680 Prod. no.: 579168 LUKOIL STEELO HST 1000 Prod. no.: 5791170	<ul style="list-style-type: none"> ■ LUKOIL STEELO HST is a high-quality mineral transmission oil with advanced additive technology. The balanced formulation is the basis for excellent wear and corrosion protection, low foaming tendency, very good ageing resistance and excellent compatibility with steel materials, non-ferrous metals, elastomer materials and paints. ■ LUKOIL STEELO HST is excellently suited for use in highly stressed industrial gears and bearing assemblies, according to manufacturer's specifications. This product has proven itself in many high-performance transmissions, through which the highest torques (even with high sliding components) are transmitted, as well as under extreme tooth flank loads and temperatures. LUKOIL STEELO HST is used in highly stressed plain and roller bearings, for instance in rolling mills, roll compaction, balers and crushers.
APPROVALS/SPECIFICATIONS	

STEEL HST 68

U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP); ISO 12925-1 (L-CKC), 12925-1 (L-CKD); AGMA 250.04, 9005-D94, 9005-E02; AIST 224; DANIELI; DAVID BROWN S1.53.101; GM LS-2 EP; MAG CINCINNATI Machine Gear; MÜLLER WEINGARTEN DT 55005; SEB 181 226; Siemens FLENDER rev. 15; TIMKEN Ltd.

STEEL HST 100

STIEBEL Getriebe A2000, QuarryMaster, QuarryMaster highpower, S2000; U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP); ISO 12925-1 (L-CKC), 12925-1 (L-CKD); AGMA 250.04, 9005-D94, 9005-E02; AIST 224; DANIELI; DAVID BROWN S1.53.101; GM LS-2 EP; MAG CINCINNATI Machine Gear; MÜLLER WEINGARTEN DT 55005; SEB 181 226; Siemens FLENDER rev. 15 Code A17; SMS group SN; TIMKEN Ltd.

STEEL HST 150

U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP); ISO 12925-1 (L-CKC), 12925-1 (L-CKD); AGMA 250.04, 9005-D94, 9005-E02; AIST 224; DANIELI; DAVID BROWN S1.53.101; GM LS-2 EP; MAG CINCINNATI Machine Gear; MÜLLER WEINGARTEN DT 55005; SEB 181 226; Siemens FLENDER rev. 15 Code A16; TIMKEN Ltd.

STEEL HST 220

STIEBEL Getriebe A2000, B2000, P2000, P3000, QuarryMaster, QuarryMaster highpower, S2000; U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP); ISO 12925-1 (L-CKC), 12925-1 (L-CKD); AGMA 250.04, 9005-D94, 9005-E02; AIST 224; BATTENFELD; DANIELI; DAVID BROWN S1.53.101; FELUWA; GM LS-2 EP; MAG CINCINNATI Machine Gear; MÜLLER WEINGARTEN DT 55005; SEB 181 226; Siemens FLENDER rev. 15 Code A15; SMS group SN; TIMKEN Ltd.

STEEL HST 320

U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP); ISO 12925-1 (L-CKC), 12925-1 (L-CKD); AGMA 250.04, 9005-D94, 9005-E02; AIST 224; DANIELI; DAVID BROWN S1.53.101; FELUWA; GM LS-2 EP; MAG CINCINNATI Machine Gear; MÜLLER WEINGARTEN DT 55005; SEB 181 226; Siemens FLENDER rev. 15 Code A14; TIMKEN Ltd.

STEEL HST 460

U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP); ISO 12925-1 (L-CKC), 12925-1 (L-CKD); AGMA 250.04, 9005-D94, 9005-E02; AIST 224; DANIELI; DAVID BROWN S1.53.101; GM LS-2 EP; MAG CINCINNATI Machine Gear; MÜLLER WEINGARTEN DT 55005; SEB 181 226; Siemens FLENDER rev. 15 Code A13; SMS group SN; TIMKEN Ltd.

STEEL HST 680

U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP); ISO 12925-1 (L-CKC); AGMA 250.04, 9005-D94; DANIELI; MÜLLER WEINGARTEN DT 55005; SEB 181 226; Siemens FLENDER rev. 15 Code A12; SMS group SN; TIMKEN Ltd.

STEEL HST 1000

U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP); ISO 12925-1 (L-CKC); AGMA 250.04, 9005-D94; DANIELI; MÜLLER WEINGARTEN DT 55005; SEB 181 226; Siemens FLENDER rev. 13 Code A11; TIMKEN Ltd.

INDUSTRIAL TRANSMISSION OILS

INDUSTRIAL TRANSMISSION OILS, FULLY SYNTHETIC

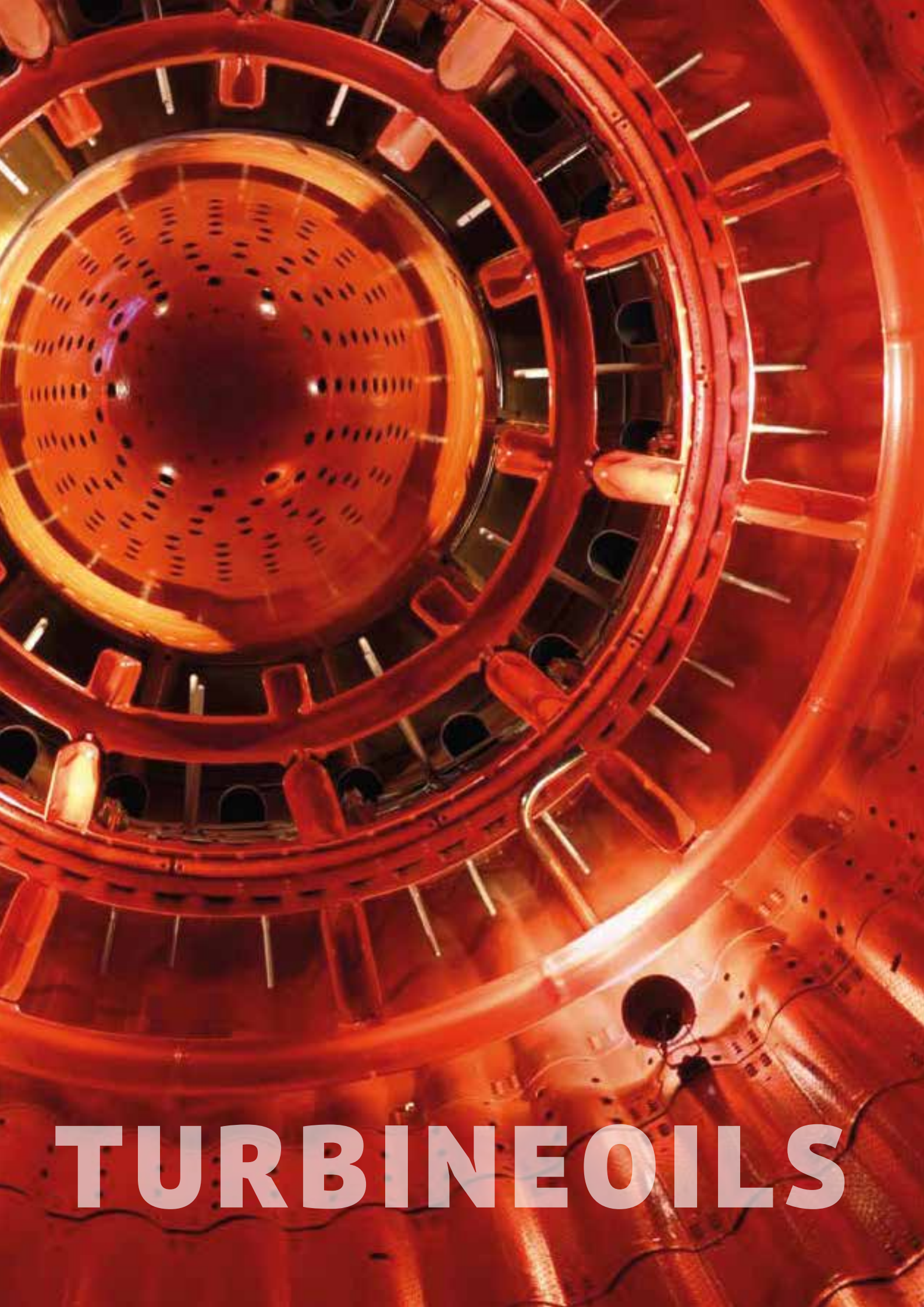
PRODUCT NAME	DESCRIPTION
LUKOIL STEELO S 220 Prod. no.: 579270 LUKOIL STEELO S 320 Prod. no.: 579280	<ul style="list-style-type: none"> ■ LUKOIL STEELO S is a high-quality fully synthetic transmission oil with advanced additive technology. LUKOIL STEELO S guarantees low-wear, energy-saving run-up at low temperatures as well as maximum lubricant film stability at high temperatures. The balanced formulation is the basis for optimum oil change intervals and excellent wear and corrosion protection, very good ageing resistance, low foaming tendency and excellent compatibility with steel materials, non-ferrous metals, elastomer materials and paints. ■ LUKOIL STEELO S is excellently suited for use in highly stressed industrial gears and bearing assemblies, according to manufacturer's specifications. This product has been designed for transmissions, sliding and rolling bearings and for circulation systems exposed to extremely low and/or extremely high temperatures.
APPROVALS/SPECIFICATIONS	
STEELO S 220 STIEBEL Getriebe A2000, QuarryMaster, QuarryMaster highpower, S2000; U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP), 51517-3 (CLP-HC); ISO 12925-1 (L-CKT); AGMA 250.04, 9005-D94, 9005-E02; AIST 224; DANA BREVINI; DANIELI 0.000.001; EICKHOFF; FELUWA; FLSmidth MAAG Gear AG; METSO; MONTANARI Giulio & C.; RENK ZAN 36011; SEB 181 226; Siemens FLENDER rev. 16 Code A35; thyssenkrupp Industrial Solutions; Übertrifft die Anforderungen der TIMKEN Ltd. für Wälzlager; WIKOV MGI; WINERGY; ZF-Wind	
STEELO S 320 U.S. STEEL 222, 223, 224; DIN 51517-3 (CLP), 51517-3 (CLP-HC); ISO 12925-1 (L-CKT); AGMA 250.04, 9005-D94, 9005-E02; AIST 224; DANA BREVINI; DANIELI 0.000.001; EICKHOFF; FELUWA; FLSmidth MAAG Gear AG; LOESCHE; MONTANARI Giulio & C.; RENK ZAN 36011; SEB 181 226; Siemens FLENDER rev. 16 Code A34; thyssenkrupp Industrial Solutions; Übertrifft die Anforderungen der TIMKEN Ltd. für Wälzlager; WIKOV MGI; WINERGY; ZF-Wind	

INDUSTRIAL TRANSMISSION OILS, FULLY SYNTHETIC

PRODUCT NAME	DESCRIPTION
LUKOIL STEELO PG 220 Prod. no.: 579250 LUKOIL STEELO PG 460 Prod. no.: 579260	<ul style="list-style-type: none"> ■ LUKOIL STEELO PG is a high-quality high-performance transmission oil based on polyalkylene glycols and advanced additive technology. The balanced formulation is the basis for extremely long oil change intervals and offers excellent wear and corrosion protection, very good ageing resistance and low foaming tendency. Compatibility with elastomer materials and paints must be clarified depending on the application. ■ According to the manufacturer's specifications, this product is excellently suited for use in industrial transmissions subject to extremely high loads and guarantees low-wear and energy-saving start-up at low temperatures as well as maximum lubricant film stability at high temperatures, among other things. LUKOIL STEELO PG is particularly suitable for the lubrication of mechanically and thermally highly stressed wheel and worm gears as well as roller and sliding bearings, especially for gearing with a very high sliding component. ■ LUKOIL STEELO PG is not compatible with mineral, synthetic and rapidly biodegradable gear oils!
APPROVALS/SPECIFICATIONS	
STEELO PG 220 DIN 51517-3 (CLP-PG); ISO 12925-1 (L-CKC), 12925-1 (L-CKD), 12925-1 (L-CKE), 12925-1 (L-CKS), 12925-1 (L-CKT), 6743-6 (L-CKC), 6743-6 (L-CKD), 6743-6 (L-CKE), 6743-6 (L-CKS), 6743-6 (L-CKT); AGMA 9005-E02; Alpha Getriebbau; LOESCHE-machines S 3; SEW; Siemens FLENDER; TIMKEN Ltd.	
STEELO PG 460 DIN 51517-3 (CLP-PG); ISO 12925-1 (L-CKC), 12925-1 (L-CKD), 12925-1 (L-CKE), 12925-1 (L-CKS), 12925-1 (L-CKT), 6743-6 (L-CKC), 6743-6 (L-CKD), 6743-6 (L-CKE), 6743-6 (L-CKS), 6743-6 (L-CKT); AGMA 9005-E02; Alpha Getriebbau; LOESCHE-machines S 5; SEW; Siemens FLENDER; TIMKEN Ltd.	

INDUSTRIAL TRANSMISSION OILS, FULLY SYNTHETIC, RAPID BIO-DEGRADATION

PRODUCT NAME	DESCRIPTION
<p>LUKOIL STEELO BIO S 150 Prod. no.: 579530</p> <p>LUKOIL STEELO BIO S 220 Prod. no.: 579540</p>	<ul style="list-style-type: none"> ■ <i>LUKOIL GEYSER BIO S is a high-quality, zinc-free and rapidly biodegradable hydraulic oil based on saturated synthetic esters and advanced additive technology. The well-balanced formulation is the basis for optimum oil change intervals and offers excellent wear and corrosion protection, very good ageing resistance, low foaming tendency and good compatibility with elastomer materials and paints, with minimal environmental impact.</i> ■ <i>According to the manufacturer's specifications, LUKOIL BIO S is excellently suited for use in highly stressed industrial transmissions and guarantees low-wear and energy-saving run-up at low temperatures as well as maximum lubricant film stability at high temperatures, among other things. This product is used in machines and installations with mechanically and thermally stressed spur, bevel, planetary and worm gears as well as for bearing lubrication. It is particularly recommended for use in environmentally sensitive areas of agriculture, forestry, the construction industry, shipping as well as in ski and water protection areas where vegetation or ground and surface waters are endangered by leaks.</i> ■ <i>When converting from mineral-based to rapidly biodegradable transmission oil, we emphatically recommend that you follow the conversion guidelines enclosed with the product data sheet!</i>
APPROVALS/SPECIFICATIONS	
<p>STEELO BIO S 150 <i>DIN 51517-3 (CLP-E); ÖNORM C 1158: >90%; TIMKEN Ltd.</i></p> <p>STEELO BIO S 220 <i>DIN 51517-3 (CLP-E); ÖNORM C 1158: >90%; TIMKEN Ltd.</i></p>	



TURBINE OILS

TURBINE OILS, SYNTHETIC

PRODUCT NAME	DESCRIPTION
LUKOIL TORNADO S 32 <i>Prod. no.: 572260</i> LUKOIL TORNADO S 46 <i>Prod. no.: 572265</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL TORNADO S is a synthetic turbine oil of the highest quality, specially developed for use in turbines with elevated operating temperatures. It is characterised by excellent resistance to ageing, particularly good air and water separation ability and reliable corrosion protection.</i> ■ <i>According to the manufacturer's specifications, this product is best suited as a lubricating oil for gas turbines and applications with increased thermal stress.</i>
APPROVALS/SPECIFICATIONS	
TORNADO S 32 DIN 51515-1 (TD), 51515-2 (TG); AGMA 9005-F16; AIST 125; ALSTOM HTGD 90 117 V0001 Y (non-EP); GENERAL ELECTRIC GEK 107395 A, 116372 A, ELECTRIC GEK 27070, 28143B, 32568K, 46506E; JIS K 2213; MAN Turbo; MITSUBISHI Heavy Industries MS04-MA-CL001(R2), Heavy Industries MS04-MA-CL002(R2); Siemens TLV 9013 04, TLV 9013 05	
TORNADO S 46 DIN 51515-1 (TD), 51515-2 (TG); AGMA 9005-F16; AIST 125; ALSTOM HTGD 90 117 V0001 Y (non-EP); GENERAL ELECTRIC GEK 27070, 28143B, 32568K, 46506E; MAN Turbo; Siemens TLV 9013 04, TLV 9013 05	
LUKOIL TORNADO SEP 32 <i>Prod. no.: 572270</i> LUKOIL TORNADO SEP 46 <i>Prod. no.: 572275</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL TORNADO SEP is a synthetic turbine oil of the highest quality, specially developed for use in turbines with elevated operating temperatures. It is characterised by excellent resistance to ageing, particularly good air and water separation ability and reliable wear and corrosion protection.</i> ■ <i>According to the manufacturer's specifications, it is ideally suited as a lubricating oil for gas turbines with transmission units and applications with increased thermal stress, where an extremely age-resistant lubricating oil with wear protection needs to be used.</i>
APPROVALS/SPECIFICATIONS	
TORNADO SEP 32 DIN 51515-2 (TGP); GENERAL ELECTRIC, ELECTRIC GEK 101941A; MAN Turbo; Siemens TLV 9013 04, TLV 9013 05; Voith Turbo	
TORNADO SEP 46 DIN 51515-2 (TGP); GENERAL ELECTRIC; MAN Turbo; Siemens MAT 812109, TLV 9013 04, TLV 9013 05; Voith Turbo	
LUKOIL TORNADO SNH 38 <i>Prod. no.: 572279</i> LUKOIL TORNADO SNH 46 <i>Prod. no.: 572280</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL TORNADO SNH is a high quality synthetic turbine oil, specially developed for applications where the turbine oil could come into contact with ammonia. It is characterised by good resistance to ageing, particularly good air and water separation ability and reliable corrosion protection.</i> ■ <i>According to the manufacturer's specifications, this product is ideally suited as a lubricating oil for turbines and turbo-compressors.</i>
APPROVALS/SPECIFICATIONS	
TORNADO SNH 38 DIN 51515-1 (TD)	
TORNADO SNH 46 DIN 51515-1 (TD); DRESSER-RAND	

TURBINE OILS

TURBINE OILS, MINERAL

PRODUCT NAME	DESCRIPTION
LUKOIL TORNADO 32 <i>Prod. no.: 572020</i> LUKOIL TORNADO 46 <i>Prod. no.: 572010</i> LUKOIL TORNADO 68 <i>Prod. no.: 572060</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL TORNADO is a mineral turbine oil of the highest quality. This product features excellent aging resistance, particularly good air, water separation and demulsifying properties, and reliable corrosion protection.</i> ■ <i>LUKOIL TORNADO is ideally suited as a lubricating oil for steam turbines, according to the manufacturer's specifications.</i>

APPROVALS/SPECIFICATIONS

TORNADO 32

DIN 51515-1 (TD); BBC; ELIN; FLSmidth MAAG; KK&K (SIEMENS Turbomachinery Equipment Gmbh); KRAFTWERKSUNION (SIEMENS KWU); MAN Turbo; Siemens TLV 9013 04; STAL-LAVAL

TORNADO 46

DIN 51515-1 (TD); BBC; ELIN; FLSmidth MAAG; KK&K (SIEMENS Turbomachinery Equipment Gmbh); KRAFTWERKSUNION (SIEMENS KWU); MAN Turbo; Siemens TLV 9013 04; STAL-LAVAL

TORNADO 68

DIN 51515-1 (TD); BBC; ELIN; FLSmidth MAAG; KK&K (SIEMENS Turbomachinery Equipment Gmbh); KRAFTWERKSUNION (SIEMENS KWU); MAN Turbo; NATO Code O-253; Siemens TLV 9013 04; STAL-LAVAL

LUKOIL TORNADO EP 32 <i>Prod. no.: 572220</i> LUKOIL TORNADO EP 46 <i>Prod. no.: 572230</i> LUKOIL TORNADO EP 68 <i>Prod. no.: 572240</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL TORNADO EP is a mineral turbine oil with EP additives of the highest quality. It features excellent resistance to ageing, particularly good air and water separation and emulsifying ability, and reliable wear and corrosion protection.</i> ■ <i>LUKOIL TORNADO EP is ideally suited as a lubricating oil for steam turbines with and without series-connected gears, according to the manufacturer's specifications. This product is also used in turbo-blowers and rotary compressors as well as bearings, gears, circulation lubrication and hydraulic systems.</i>
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APPROVALS/SPECIFICATIONS

TORNADO EP 32

DIN 51506 (VB), 51506 (VBL), 51515-1 (TDP), 51515-2 (TGP), 51517-2 (CL), 51524-1 (HL); KRAFTWERKSUNION (SIEMENS KWU); SEB 181 222; Siemens TLV 9013 04; VDMA 24318 (HL)

TORNADO EP 46

DIN 51506 (VB), 51506 (VBL), 51515-1 (TDP), 51515-2 (TGP), 51517-2 (CL), 51524-1 (HL); KRAFTWERKSUNION (SIEMENS KWU); SEB 181 222; Siemens TLV 9013 04; VDMA 24318 (HL)

TORNADO EP 68

DIN 51506 (VB), 51506 (VBL), 51515-1 (TDP), 51515-2 (TGP), 51517-2 (CL), 51524-1 (HL); KRAFTWERKSUNION (SIEMENS KWU); SEB 181 222; Siemens TLV 9013 04; VDMA 24318 (HL)

LUKOIL TORNADO EP-AS 32 <i>Prod. no.: 572226</i> <i>Product upon request!</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL TORNADO EP-AS 32 features maximum oxidation resistance, effective corrosion protection, freedom from foam, wear-resistant properties and neutral behaviour with regard to seals. Additional active ingredients are used to dissipate static electricity.</i> ■ <i>LUKOIL TORNADO EP-AS 32 is ideally suited as a lubricating oil for steam turbines with and without transmission unit, according to the manufacturer's specifications.</i>
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APPROVALS/SPECIFICATIONS

TORNADO EP-AS 32

DIN 51506 (VB), 51506 (VBL), 51515-1 (TDP), 51515-2 (TGP), 51517-2 (CL), 51524-1 (HL); KRAFTWERKSUNION (SIEMENS KWU); SEB 181 222; Siemens TLV 9013 04; VDMA 24318 (HL)

TURBINE OILS, MINERAL

PRODUCT NAME	DESCRIPTION
LUKOIL TORNADO AQUA 78 Prod. no.: 572255	<ul style="list-style-type: none"> ■ <i>LUKOIL TORNADO AQUA 78 is characterised by its excellent oxidation resistance as well as its particularly good demulsifying and air separation properties.</i> ■ <i>LUKOIL TORNADO AQUA 78 is free from chlorine, PCB and PCT.</i> ■ <i>According to the manufacturer's specifications, it is ideally suited as a lubricating oil for water turbines.</i>
APPROVALS/SPECIFICATIONS	
TORNADO AQUA 78 DIN 51515-1 (TD); ISO 8086 (L-TGA), 8086 (L-TSA); BBC; DEMAG-DELAVAL; ELIN; KRAFTWERKSUNION (SIEMENS KWU); MAN Turbo; STAL-LAVAL	

TURBINE OILS, ADDITIV

PRODUCT NAME	DESCRIPTION
LUKOIL TURBOFRESH Prod. no.: 571660	<ul style="list-style-type: none"> ■ <i>LUKOIL TURBOFRESH is an additive to increase the conductivity of turbine oils. This measure counters electrical discharges in the form of sparks, extends the service life of the oil filling and protects the machine components.</i>
APPROVALS/SPECIFICATIONS	



COMPRESSOR OILS

COMPRESSOR OILS, MINERAL

PRODUCT NAME	DESCRIPTION
LUKOIL STABIO VDL 46 <i>Prod. no.: 571828</i> LUKOIL STABIO VDL 68 <i>Prod. no.: 571830</i> LUKOIL STABIO VDL 100 <i>Prod. no.: 571840</i> LUKOIL STABIO VDL 150 <i>Prod. no.: 571850</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL STABIO VDL is a mineral, zinc-free compressor oil for engine, rotor, bearing and cylinder lubrication of screw (ISO VG 46 and 68) and piston compressors (ISO VG 100 and 150) with oil-lubricated pressure chamber and with or without injection cooling. It can be used at final compression temperatures of up to 220 °C, prevents the formation of deposits and ensures high operational safety.</i> ■ <i>Depending on the manufacturer's specifications, LUKOIL STABIO VDL is suitable for use in ammonia compressors and as vacuum pump oil.</i>

APPROVALS/SPECIFICATIONS

STABIO VDL 46

DIN 51506 (VB), 51506 (VBL), 51506 (VC), 51506 (VCL), 51506 (VDL); **ISO** 6521 (L-DAA), 6521 (L-DAB), 6521 (L-DAG), 6521 (L-DAH)

STABIO VDL 68

DIN 51506 (VB), 51506 (VBL), 51506 (VC), 51506 (VCL), 51506 (VDL); **ISO** 6521 (L-DAA), 6521 (L-DAB), 6521 (L-DAG), 6521 (L-DAH)

STABIO VDL 100

DIN 51506 (VB), 51506 (VBL), 51506 (VC), 51506 (VCL), 51506 (VDL); **ISO** 6521 (L-DAA), 6521 (L-DAB), 6521 (L-DAG), 6521 (L-DAH)

STABIO VDL 150

DIN 51506 (VB), 51506 (VBL), 51506 (VC), 51506 (VCL), 51506 (VDL); **ISO** 6521 (L-DAA), 6521 (L-DAB), 6521 (L-DAG), 6521 (L-DAH)

LUKOIL STABIO 460

Prod. no.: 571885

Products upon request!

- *LUKOIL STABIO is a high viscosity, zinc-free mineral compressor oil for use in heavy duty compressors at medium speed and high temperatures.*
- *LUKOIL STABIO is recommended for heavily stressed worm, cylinder and bevel gears, roller and sliding bearings and for circulation lubrication systems of steam engines operating at temperatures up to a maximum of 280 °C.*

COMPRESSOR OILS, MINERAL, DETERGENT

PRODUCT NAME	DESCRIPTION
LUKOIL STABIO D 68 <i>Prod. no.: 571823</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL STABIO D is a mineral, zinc-containing and slightly detergent compressor oil for screw, piston or multi-cell compressors. It reliably protects the units against corrosion and wear, has excellent resistance to ageing, good cooling properties, rapid air separation capacity and low foaming tendency.</i> ■ <i>LUKOIL STABIO D is the preferred choice for lubrication of the engine and compressor unit of screw compressors. LUKOIL STABIO D is also used in air vacuum pumps, even if they convey against a pressure that exceeds the atmospheric pressure.</i>

APPROVALS/SPECIFICATIONS

STABIO D 68

DIN 51506: VB/VBL/VC/VCL/VDL; **ISO** 6521 - DAA/ DAB/ DAG/ DAH

COMPRESSOROILS

COMPRESSOR OILS, SYNTHETIC

PRODUCT NAME	DESCRIPTION
<p>LUKOIL STABIO S 46 Prod. no.: 571532</p> <p>LUKOIL STABIO S 68 Prod. no.: 571535</p>	<ul style="list-style-type: none"> ■ LUKOIL STABIO S is a fully synthetic, zinc-free compressor and hydraulic oil. It can be used at extremely low temperatures, allows considerably greater oil change intervals than mineral oils and reduces maintenance and repair costs. ■ LUKOIL STABIO S has been specially developed for use in screw compressors, but can also be used very well in turbo compressors, hydraulic systems and many types of transmissions. This product is ideally suited for ammonia compressors and vacuum pumps due to its low vapour pressure.
<h3>APPROVALS/SPECIFICATIONS</h3> <p>STABIO S 46 DIN 51506 (VB-HC), 51506 (VBL-HC), 51506 (VC-HC), 51506 (VCL-HC), 51506 (VDL-HC), 51524-2 (HLP), 51524-3 (HVLP-HC); ISO 6521 (L-DAA), 6521 (L-DAB), 6521 (L-DAG), 6521 (L-DAH), 6743-3 (L-DAA); ATMOS CHRÁST; GM LJ; ROTORCOMP Verdichter GmbH; SAE MS 1003-2; Spezifischer Verschleiß in Kraftstufe 11: 0,14 mg/kWh; TERMOMECCANICA Compressori</p> <p>STABIO S 68 DIN 51506 (VB-HC), 51506 (VBL-HC), 51506 (VC-HC), 51506 (VCL-HC), 51506 (VDL-HC), 51524-3 (HVLP-HC); ISO 6521 (L-DAA), 6521 (L-DAB), 6521 (L-DAG), 6521 (L-DAH); Spezifischer Verschleiß in Kraftstufe 11: 0,14 mg/kWh</p>	
<p>LUKOIL STABIO PG 100 Prod. no.: 571700</p> <p>LUKOIL STABIO PG 150 Prod. no.: 571705</p>	<ul style="list-style-type: none"> ■ LUKOIL STABIO PG is a Polyalkylenglycol based high performance synthetic gas compressor oil. ■ The product portfolio is designed for enclosed pattern gas compressors for hydrocarbon and chemical gases where the crankcase and bearing operate in a gas-filled atmosphere. ■ These conditions benefit the gas to be soluble in mineral oil lubricants on dilution. This suffers a significant drop in viscosity and lubricant performance.
<h3>APPROVALS/SPECIFICATIONS</h3> <p>STABIO PG 100 BURCKHARDT Compression; COMOTI; GEA Grasso; GREENFIELD; LeROI Gas Compressors; WINTERTHUR</p> <p>STABIO PG 150 BURCKHARDT Compression; GEA Grasso; GREENFIELD; LeROI Gas Compressors; WINTERTHUR</p>	
<p>LUKOIL STABIO SRK 220 Prod. no.: 575308</p>	<ul style="list-style-type: none"> ■ High quality oil with special semi-synthetic additives for application in piston compressors with oil injection systems ■ LUKOIL STABIO SRK 220 is characterized by high durability, excellent lubrication film formation and adhesion properties. ■ Because of the special additive package LUKOIL STABIO SRK 220 shows very good corrosion and wear protection. The formulation is based on naphthenic oil and shows excellent low temperature properties. ■ LUKOIL STABIO SRK 220 is best suitable for lubrication of slow-running high pressure compressors for process gases.
<h3>APPROVALS/SPECIFICATIONS</h3> <p>STABIO SRK 220 DIN 51506 (VDL)</p>	

CIRCULATING OILS

PRODUCT NAME	DESCRIPTION
LUKOIL INTEGO 320 <i>Prod. no.: 572355</i> LUKOIL INTEGO 460 <i>Prod. no.: 572350</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL INTEGO are high quality mineral lubricating oils specially developed for applications with Morgoil[®] bearings. They are characterised by excellent resistance to ageing, particularly good air and water separation ability and reliable wear and corrosion protection.</i> ■ <i>LUKOIL INTEGO are ideally suited, in accordance with the manufacturer's specifications, as lubricating oils for hydraulic and circulation lubrication systems, turbo compressors, rotary compressors, plain and roller bearings as well as moderately stressed gearboxes.</i>

APPROVALS/SPECIFICATIONS

DIN 51501 (L-AN), 51502 (H), 51517-2 (CL); DANIELI 0.000.001; SMS group SN 180-3 (X-Roll Oil Bearing-Standard Lubricants)

LUKOIL ROUND 10 <i>Prod. no.: 573060</i> LUKOIL ROUND 15 <i>Prod. no.: 573063</i> LUKOIL ROUND 32 <i>Prod. no.: 573070</i> LUKOIL ROUND 46 <i>Prod. no.: 573075</i> LUKOIL ROUND 68 <i>Prod. no.: 573080</i> LUKOIL ROUND 100 <i>Prod. no.: 573085</i> LUKOIL ROUND 150 <i>Prod. no.: 573085</i> LUKOIL ROUND 220 <i>Prod. no.: 573095</i> LUKOIL ROUND 320 <i>Prod. no.: 573100</i> LUKOIL ROUND 460 <i>Prod. no.: 573105</i>	<ul style="list-style-type: none"> ■ <i>LUKOIL ROUND are universal mineral oils of high quality, which have also been developed for applications with increased operating temperatures. It is characterised by excellent resistance to ageing, particularly good ability to separate air and water and reliable wear and corrosion protection.</i> ■ <i>LUKOIL ROUND are ideally suited in accordance with the manufacturer's specifications as lubricating oils for hydraulic and circulation lubrication systems, turbo compressors, rotary compressors, plain and roller bearings as well as moderately stressed gearboxes.</i>
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APPROVALS/SPECIFICATIONS

ROUND 10 & 15

DIN 51506 (VB), 51506 (VBL), 51517-2 (CL), 51524-1 (HL); SEB 181 222; VDMA 24318 (HL)

ROUND 32 & 46

DIN 51506 (VB), 51506 (VBL), 51517-2 (CL), 51524-1 (HL); ISO 6521 (L-DAA), 6521 (L-DAB); SEB 181 222; VDMA 24318 (HL)

ROUND 68 & 100

DIN 51506 (VB), 51506 (VBL), 51517-2 (CL), 51524-1 (HL); LAEIS; SEB 181 222; VDMA 24318 (HL)

ROUND 150

DIN 51506 (VB), 51506 (VBL), 51517-2 (CL), 51524-1 (HL); SEB 181 222; VDMA 24318 (HL)

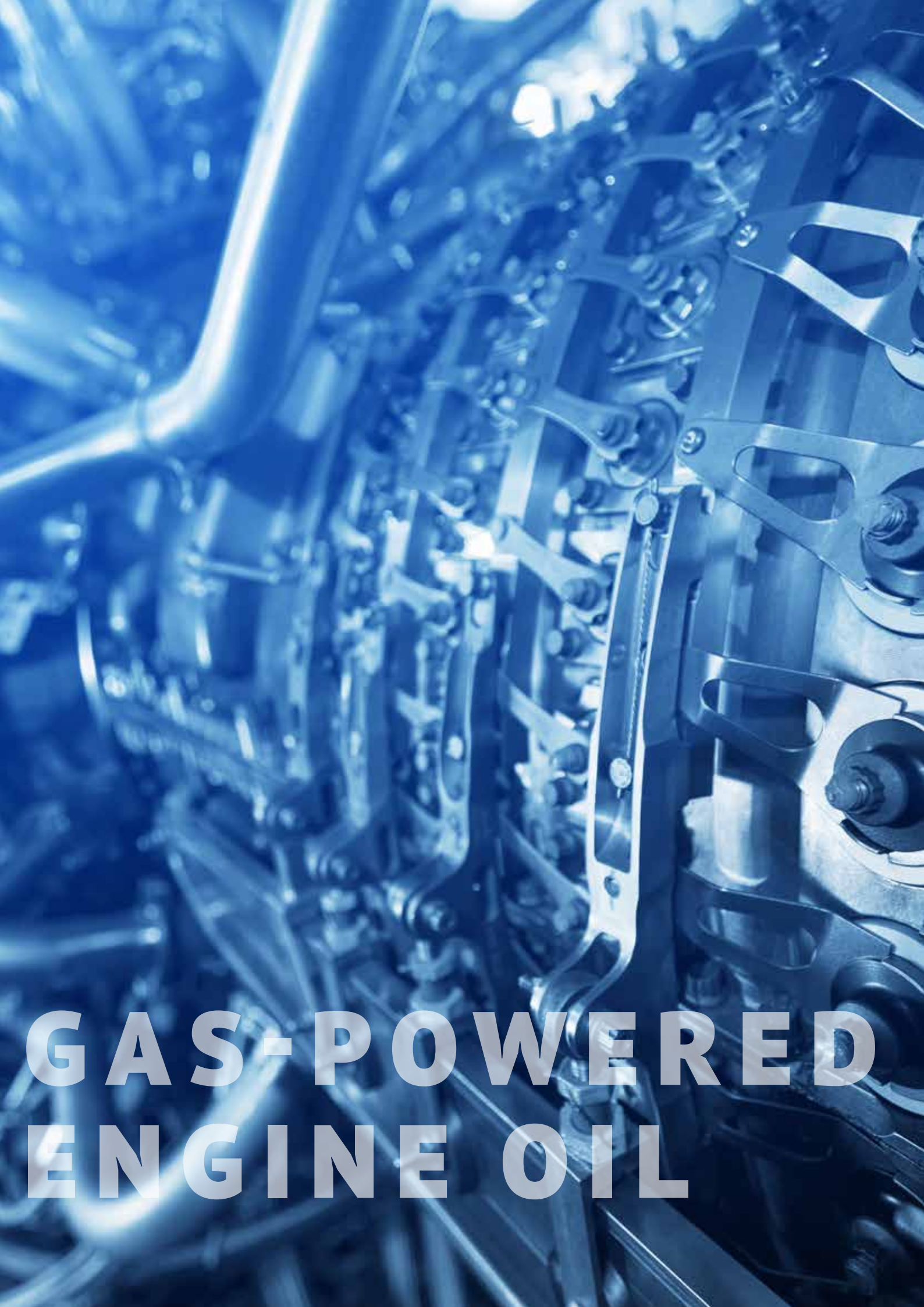
ROUND 220, 320 & 460

DIN 51506 (VB), 51506 (VBL), 51517-2 (CL), 51524-1 (HL); KRAUSS MAFFEI BERSTORFF; SEB 181 222; VDMA 24318 (HL)

CIRCULATING OILS

PRODUCT NAME	DESCRIPTION
LUKOIL LUBE P 460 <i>Prod. no.: 573050</i>	<ul style="list-style-type: none">■ <i>LUKOIL LUBE P 460 are unalloyed, universal, mineral oils of high quality. The products are distinguished by good durability, neutral behaviour with respect to sealing materials, good air and water separation properties as well as good viscosity-temperature characteristics.</i>■ <i>LUKOIL LUBE P 460 are ideally suited in accordance with the manufacturer's specifications as lubricating oils for hydraulic, loss and circulation lubrication systems, plain and roller bearings as well as lightly stressed gears.</i>
APPROVALS/SPECIFICATIONS	
<i>DIN 51501, 51506 (VB, VBL), 51517-1 (C); ISO 6743-3 (DAA), 6743-4 (HH), 11158 (HH)</i>	

LUKOIL LUBE PX 15 <i>Prod. no.: 573202</i>	<ul style="list-style-type: none">■ <i>Oils from the LUKOIL LUBE PX series are highly refined circulating oils which are characterized by their resistance to aging, good viscosity-temperature behavior (VI > 90) and good lubricating properties. This product series has excellent demulsification properties, therefore water and other contaminants are quickly separated from the oil.</i>■ <i>LUKOIL LUBE PX is used to lubricate bearings as well as continuous or circulation lubrication of complex machines and systems in rolling mills, calendars, paper and printing machines where no additives are required. Another area of application is in large offset printing machines with extremely high working speed or in steel works. LUKOIL LUBE PX can be used as a lubricating oil in air compressors with oil-lubricated pressure chambers without injection cooling. These lubricating oils can also be used in vacuum pumps that deliver against a higher than atmospheric pressure. Furthermore, the series can be used as flushing oil and spindle oil.</i>
LUKOIL LUBE PX 32 <i>Prod. no.: 573204</i>	
LUKOIL LUBE PX 68 <i>Prod. no.: 573208</i>	
LUKOIL LUBE PX 100 <i>Prod. no.: 573210</i>	
APPROVALS/SPECIFICATIONS	
<i>DIN 51501, 51506 (VB, VBL), 51517-1 (C); ISO 6743-3 (DAA), 6743-4 (HH), 11158 (HH)</i>	



**GAS-POWERED
ENGINE OIL**

GAS-POWERED ENGINE OIL

GAS-POWERED ENGINE OIL FOR STATIONARY ENGINES

PRODUCT NAME	DESCRIPTION
LUKOIL EFFORCE XDI 4004 Prod. no.: 566056	<ul style="list-style-type: none"> ■ LUKOIL EFFORCE XDI 4004 is a semi-synthetic, extremely low-ash gas-powered engine oil for extremely long oil change intervals. Advanced additive technology protects reliably against the build-up of deposits in the combustion chamber and exhaust system, prevents sludge formation and coking, and provides excellent corrosion protection. ■ This engine oil is excellently suited for use in 4-stroke gas-powered engines with/without turbocharger or catalytic converter as well as for dual-fuel engines that are operated with natural gas, low-pollutant biogases or low-energy lean or process gases. <p>Not suitable for use in petrol and diesel engines!</p>

APPROVALS/SPECIFICATIONS

INNIO Jenbacher TA 1000-1109, Type 2, Type 3, Type 4 (version A&B), Type 6 (version C&E); **CATERPILLAR** 3300, 3400, 3500, 3600, TR 2105/19 EN CG132, CG132B, CG170, CG 260, CG260 (4.5); **Cummins** QSK 60G, QSV 81G, QSV 91G; **DEUTZ** 0199-99-2105/7; **MAN** M 3271-2; **MTU** MLT 5074, A001061/29E (Category 1), Onsite Energy 400 & 4000 series; **MWM** TR 0199-99-02105-19, TR 2105/19 EN (TCG 2016, TCG 2020, TCG 2032, TCG 2032B, TCG 3016); **PERKINS** engine series 4000; **Rolls-Royce**; **WÄRTSILÄ**; **WAUKESHA**, **APG**, **VGF**, **VHP**, **VSG**

LUKOIL EFFORCE 4004 Prod. no.: 566025	<ul style="list-style-type: none"> ■ LUKOIL EFFORCE 4004 is an extremely low-ash, mineral-based gas-powered engine oil. Advanced additive technology protects reliably against the build-up of deposits in the combustion chamber and exhaust system, prevents sludge formation and coking, and provides excellent corrosion protection. ■ This engine oil is excellently suited for use in 4-stroke gas-powered engines with/without turbocharger or catalytic converter as well as for dual-fuel engines that are operated with natural gas, low-pollutant biogases or low-energy lean or process gases. LUKOIL EFFORCE 4004 is also suitable for dual-fuel engines. Furthermore, it meets the requirements for MAN Diesel & Turbo medium-speed engines. <p>Not suitable for use in petrol and diesel engines!</p>
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APPROVALS/SPECIFICATIONS

INNIO Jenbacher TA 1000-1109, Type 2, Type 3, Type 4 (version A&B), Type 6 (version C&E), Type 6 (version F&J); **CATERPILLAR**, 3300, 3400, 3500, 3600; **Cummins** QSK 60G, QSV 81G, QSV 91G; **DEUTZ** 0199-99-2105/7; **GUASCOR** FGLD, SFGLD; **MAN**, Diesel & Turbo, M 3271-2; **MHI** GS16R2; **MITSUBISHI**, HIET; **MTU** MLT 5074, A001061/29E (Category 1), Onsite Energy 400 & 4000 series; **MWM** TR 0199-99-2105; **PERKINS** engine series 4000; **Rolls-Royce**, K-Typ engines; **WÄRTSILÄ** 175SG, 20DF, 220SG, 25SG, 28SG, 32DF, 34DF, 34SG, 50DF, 50SG; **WAUKESHA**

LUKOIL EFFORCE HD 4009 Prod. no.: 566055	<ul style="list-style-type: none"> ■ LUKOIL EFFORCE 4009 is a low-ash, mineral-based oil for gas-powered engines. Advanced additive technology protects reliably against deposit formation in the combustion chamber and exhaust system, prevents sludge formation and coking and provides excellent corrosion protection. ■ This engine oil is ideally suited for use in 4-stroke gas-powered engines with and without supercharging under severe operating conditions, using natural gas, sewage gas and biogas. <p>Not suitable for use in petrol and diesel engines!</p>
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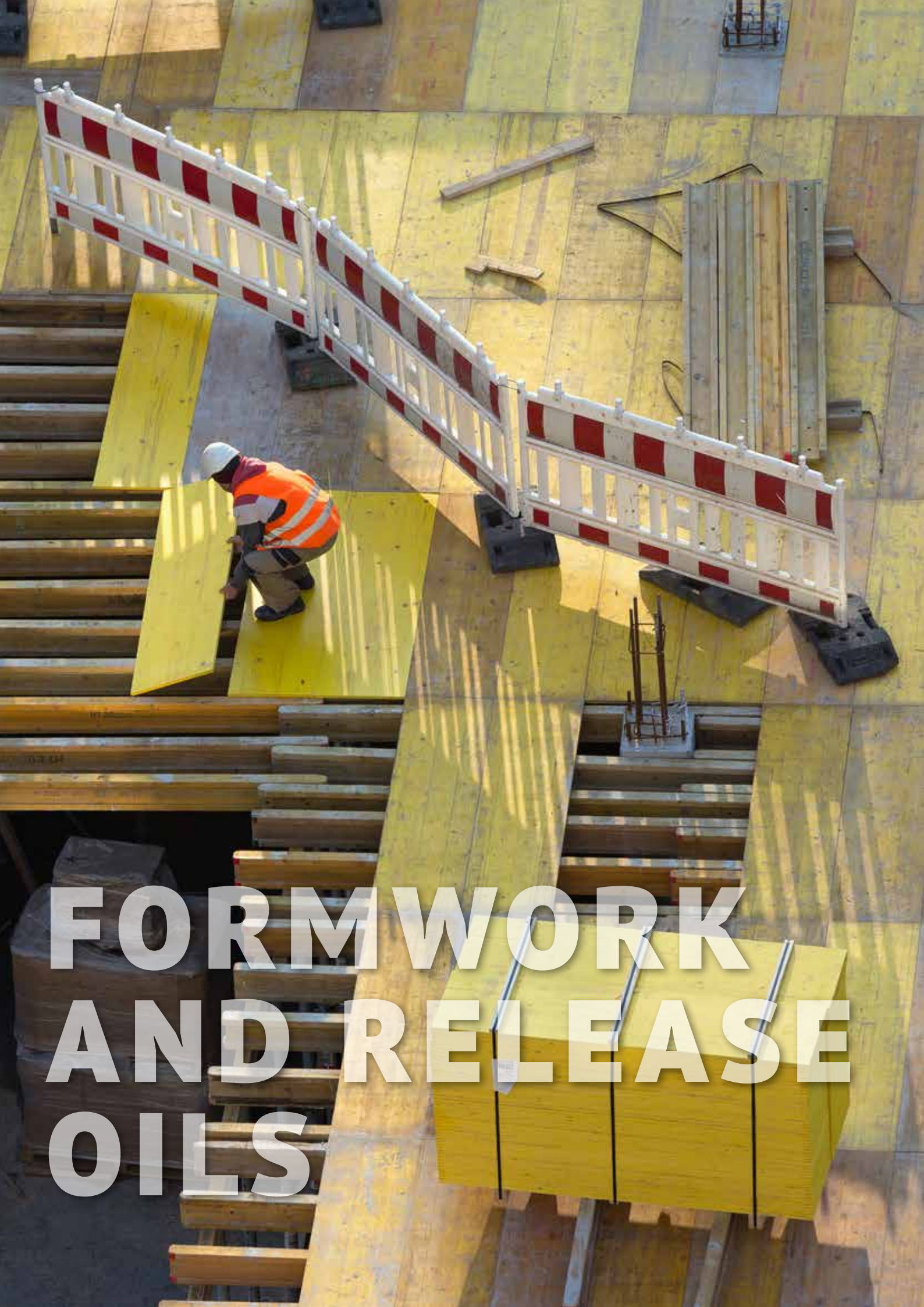
APPROVALS/SPECIFICATIONS

INNIO Jenbacher TA 1000-1109, Type 2, Type 3; **MAN** M 3271-1, M 3271-4; **MDE** 57 AP 2008; **MIL-L-2104B**; **MIL-L-2104C**; **MTU** BR 400, BR 400; **TEDOM** 61-0-0281.1.

LUKOIL EFFORCE XDI-F 4004 Prod. no.: 566057	<ul style="list-style-type: none"> ■ LUKOIL EFFORCE XDI-F 4004 is a low-ash four-stroke gas engine oil of the latest generation for extended oil change intervals. ■ It was specially developed for high-performance gas engines with steel pistons and offers a high degree of resistance to nitration and oxidation. ■ Deposits in the combustion chamber, as well as in the upper ring groove, are managed excellently. ■ The maximum time between major engine overhauls is ensured by improved engine lubrication performance and cleanliness of the oil channels. Engine life is extended by minimizing valve erosion, reducing wear on piston rings and cylinder liners.
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APPROVALS/SPECIFICATIONS

INNIO Jenbacher TA 1000-1109, Type 2, Type 3, Type 4 (version A&B), Type 6 (version C&E), Type 6 (version F&J), Type 6 (version H&K); **CATERPILLAR** 3500, 3600; **MTU** MLT 5074, A001061/29E (Category 1), Onsite Energy 400 & 4000 series; **Rolls-Royce**; **WAUKESHA**



FORMWORK AND RELEASE OILS

FORMWORK AND RELEASE OILS

FORMWORK AND RELEASE OILS

PRODUCT NAME	DESCRIPTION
LUKOIL LAYER ASPHALT Prod. no.: 580506	<ul style="list-style-type: none">■ <i>LUKOIL LAYER ASPHALT is an innovative, rapidly biodegradable, emulsifiable release agent for asphalt construction work, preventing asphalt mixes from sticking thanks to its high polarity. High economic efficiency is achieved by mixing with water.</i>■ <i>It is mainly used on tipper surfaces, asphaltting equipment and rollers.</i>
LUKOIL LAYER BIO Prod. no.: 580511	<ul style="list-style-type: none">■ <i>LUKOIL LAYER BIO based on rapeseed oil is a highly effective, rapidly biodegradable release agent for concrete formwork. The high polarity provides good adhesion, and an excellent release effect ensures easy removal, especially with metal formwork. LUKOIL LAYER BIO provides a clean, largely non-porous exposed concrete surface and does not impair the adhesion of plaster, paint or wallpaper.</i>■ <i>LUKOIL LAYER BIO is used preferably for in-situ concrete construction and can be used for the production of rough, spread and exposed concrete with absorbent formwork materials, surface-modified wooden formwork panels as well as smooth and profiled metal formwork.</i>
LUKOIL LAYER BS3 Prod. no.: 580560 LUKOIL LAYER BS4 Prod. no.: 580561	<ul style="list-style-type: none">■ <i>LUKOIL LAYER BS are release agents especially for the production of aerated concrete blocks. The products are non-emulsifiable, highly viscous, economical to use and provide excellent corrosion protection for the moulds.</i>■ <i>The excellent film stability ensures perfect separation and thus clean surfaces of the concrete block and casting mould.</i>
LUKOIL LAYER CLASSIC Prod. no.: 580521	<ul style="list-style-type: none">■ <i>LUKOIL LAYER CLASSIC is an active ingredient-containing release agent providing excellent corrosion protection for steel formwork, protecting wood from leaching and rotting. The thin, stable release film ensures an optimum concrete surface and economical application.</i>■ <i>LUKOIL LAYER CLASSIC is suitable for exposed concrete and precast concrete parts with wooden, plastic or steel formwork.</i>
LUKOIL LAYER EC Prod. no.: 580518	<ul style="list-style-type: none">■ <i>LUKOIL LAYER EC is a release agent containing active ingredients and ensures excellent corrosion protection for steel formwork, as well as protecting wood from leaching and rotting.</i>■ <i>LUKOIL LAYER EC is particularly suitable for exposed concrete and prefabricated concrete parts with wooden, plastic and steel formwork. The stable release film ensures an optimal concrete surface and an economical application.</i>
LUKOIL LAYER PROTECT Prod. no.: 580516	<ul style="list-style-type: none">■ <i>LUKOIL LAYER PROTECT is a highly effective mixer protection for dry and wet surfaces. This product is distinguished by its excellent adhesion to concrete mixing drums and pumps as well as all accessories that come into contact with fresh concrete. Our product effects a chemical-physical separation of the concrete from the metal surface. The curing process of the concrete is not negatively influenced.</i>■ <i>LUKOIL LAYER PROTECT significantly reduces cleaning times and/or cleaning costs and extends the service life of the treated equipment.</i>
LUKOIL LAYER PROTECT LT Prod. no.: 580515	<ul style="list-style-type: none">■ <i>LUKOIL LAYER PROTECT LT is distinguished by its excellent adhesion to concrete mixer drums and pumps as well as all accessories that come into contact with fresh concrete. Our product effects a chemical-physical separation of the concrete from the metal surface. The curing process of the concrete is not affected.</i>■ <i>LUKOIL LAYER PROTECT LT significantly reduces cleaning times and/or cleaning costs and extends the service life of the treated equipment.</i>■ <i>LUKOIL LAYER PROTECT LT has been specially developed for very cold climates and ambient temperatures (LT= low temperatures) and can be applied easily, even in very cold temperatures.</i>

FORMWORK AND RELEASE OILS

PRODUCT NAME	DESCRIPTION
<p>LUKOIL KORREX O 5-MÖST <i>Prod. no.: 576561</i></p>	<ul style="list-style-type: none"> ■ <i>LUKOIL KORREX O 5-MÖST is a low-viscosity, corrosion protection oil with selected, highly effective inhibitors. LUKOIL KORREX O 5-MÖST has good water displacing characteristics and a high penetration capacity. It gives a light-coloured, non-resinous, thin and odourless film with very good corrosion protection.</i> ■ <i>LUKOIL KORREX O 5-MÖST is ideally suited for the surface conservation of smaller mass-produced parts such as automatically turned parts, thin wires, fine measuring tools, the internal intermediate conservation of precision parts, which pass through a dimensional check, as well as for the internal conservation of precision mechanical apparatus and close-fitting parts.</i>
<p>LUKOIL BIOFLUID MF 10 <i>Prod. no.: 580512</i></p>	<ul style="list-style-type: none"> ■ <i>LUKOIL BIOFLUID MF 10 based on rapeseed oil is a highly effective release agent for concrete formwork. Due to its excellent release properties, LUKOIL BIOFLUID MF 10 ensures easy removal of the formwork. Polar properties result in high adhesion of the release agent, especially with metal formwork.</i> ■ <i>It is used especially in in-situ concrete construction to preclude ecological pollution. It is used for rough, painted and above all exposed concrete in the production with absorbent and non-absorbent formwork materials and provides a clean, largely non-porous, exposed concrete surface. The release agent does not affect the adhesion of plaster, paint or wallpaper.</i>



**LOSS
LUBRICATION**

LOSS LUBRICANTS, CHAIN SAW OILS

PRODUCT NAME	DESCRIPTION
LUKOIL BIOSEGAROL E 100 Prod. no.: 580481	<ul style="list-style-type: none"> ■ <i>LUKOIL BIOSEGAROL E 100 is a speedy biodegradable, environmentally friendly chain saw oil based on high-quality rapeseed oils. The product is notable for its reliable wear protection and good adhesion.</i> ■ <i>LUKOIL BIOSEGAROL E 100 is primarily used for the lubrication of guide bar and chain for chain saws of all manufacturers.</i>
APPROVALS/SPECIFICATIONS	
<i>ÖNORM C 2030, Biologische Abbaubarkeit nach 21 Tagen nach ON C 1158: >90 %</i>	
LUKOIL CHAINSAW H 150 Prod. no.: 580415	<ul style="list-style-type: none"> ■ <i>LUKOIL CHAINSAW H 150 ensures the best lubricating and adhesive properties.</i> ■ <i>LUKOIL CHAINSAW H 150 is recommended as a lubricating oil for saw blades and chains and for all loss lubrication in the wood industry, even at higher ambient temperatures.</i>
APPROVALS/SPECIFICATIONS	
<i>DIN 51502 (CL)</i>	
LUKOIL BIOCHAIN LIGHT Prod. no.: 580431 LUKOIL BIOCHAIN MEDIUM Prod. no.: 580432 LUKOIL BIOCHAIN HEAVY Prod. no.: 580433	<ul style="list-style-type: none"> ■ <i>LUKOIL BIOCHAIN are biodegradable, loss lubricating oils based on rapeseed oil. The products are notable for their good adhesion, reliable friction reduction, good wear protection and high-yield use.</i> ■ <i>They are ideally suited for use in loss lubrication systems in the wood and sawmill industry.</i>
APPROVALS/SPECIFICATIONS	
<i>BIOCHAIN HEAVY thyssenkrupp Industrial Solutions</i>	
LUKOIL CHAIN LIGHT Prod. no.: 580427 LUKOIL CHAIN MEDIUM Prod. no.: 580428 LUKOIL CHAIN HEAVY Prod. no.: 580429	<ul style="list-style-type: none"> ■ <i>LUKOIL CHAIN is a special lubricating oil, which is particularly suitable for winter operation, for use in the woodworking and sawmill industry. Its high adhesion capability reduces wear, lowers lubricant consumption, maintenance requirements, does not tend to gum up and reduces maintenance costs.</i> ■ <i>Due to its product qualities, LUKOIL CHAIN is used as a loss lubricant for friction reduction on open systems, especially in the woodworking and sawmill industry, above all for chain saws and for the lubrication of sliding and guideways on woodworking machines.</i>
APPROVALS/SPECIFICATIONS	
<i>CHAIN HEAVY thyssenkrupp Industrial Solutions</i>	

LOSS LUBRICATION

LOSS LUBRICANTS, RECIPROCATING SAW OILS

PRODUCT NAME	DESCRIPTION
LUKOIL LUBE GF 100 <i>Prod. no.: 580441</i> LUKOIL LUBE GF 150 <i>Prod. no.: 580442</i> LUKOIL LUBE GF 220 <i>Prod. no.: 580443</i> LUKOIL LUBE GF 320 <i>Prod. no.: 580444</i> LUKOIL LUBE GF 460 <i>Prod. no.: 580445</i>	<ul style="list-style-type: none">■ <i>LUKOIL LUBE GF are highly viscous lubricating oils, specially developed for applications in the sawmill and woodworking industry. The products are distinguished by high wear protection, excellent adhesion, good corrosion protection and low viscosity-temperature dependence. The selected additive combination prevents stick-slip, even at low sliding speeds and thus effectively prevents the incidence of start-up seizures and run-in pitting. The high affinity of LUKOIL LUBE GF to metal surfaces ensures economical use.</i>■ <i>These lubricants are ideally suited for use in slideways and guideways, also of high-speed saw gates, gears and other lubrication points.</i>
APPROVALS/SPECIFICATIONS	
<i>DIN 51502 (CGLP), 51502 (CLP)</i>	

LOSS LUBRICANTS, PNEUMATIC OILS FOR PNEUMATIC TOOLS

PRODUCT NAME	DESCRIPTION
LUKOIL AIR 100 <i>Prod. no.: 575120</i>	<ul style="list-style-type: none">■ <i>LUKOIL AIR 100 is a mineral pneumatic oil, which is distinguished by high economy, effective corrosion protection, good low-temperature properties, good adhesion and the resulting wear protection.</i>■ <i>It is ideally suited for use in highly stressed hammer drills, rotating pneumatic tools, demolition hammers, chain and slide rails of hydraulic drill jumbos and rotary drills as well as for lubricating the guideways of machine tools.</i>
APPROVALS/SPECIFICATIONS	
<i>ISO 6743-11 (L-PAC, L-PBC)</i>	



SPECIAL PRODUCTS

SPECIAL PRODUCTS

TRANSFORMER OIL

PRODUCT NAME	DESCRIPTION
LUKOIL TRAF0 IEC II Prod. no.: 552740	<ul style="list-style-type: none">■ <i>LUKOIL TRAF0 IEC II is an inhibited insulating oil with low dielectric loss factor and high disruptive voltage. The exceptional low-temperature properties enable good convection and reliable heat dissipation even at low application temperatures.</i>■ <i>LUKOIL TRAF0 IEC II protects against the formation of sludge and acid, behaves neutrally towards insulating materials, ensures short-circuit resistance and has exceptional ageing stability over long operating times.</i>
APPROVALS/SPECIFICATIONS	
<i>ASTM D 3487; BS 148; ČSN 656845; DIN EN 60296/VDE 0370-1; IEC 60296; MSZ 153/3; ÖNORM EN 60296</i>	

HEAT TRANSFER FLUIDS

PRODUCT NAME	DESCRIPTION
LUKOIL THERMO 32 Prod. no.: 571620	<ul style="list-style-type: none">■ <i>LUKOIL THERMO 32 is a mineral heat transfer oil. The product is distinguished by low vapour pressure (high initial boiling point) at atmospheric pressure, as well as high thermal resistance and thus long operating times in closed and open circulation systems, even with high flow temperatures.</i>■ <i>Ideally suited for use in industrial heat transfer systems as well as thermos containers for highly viscous materials, for example in road construction.</i>
APPROVALS/SPECIFICATIONS	
<i>DIN 51522 (Q); ISO 6743-12 (L-Q)</i>	
LUKOIL THERMOCLEAN Prod. no.: 571655	<ul style="list-style-type: none">■ <i>LUKOIL THERMOCLEAN is a high-detergent additive for cleaning contaminated circulating systems, especially for heat transfer oil systems.</i> <p>Please contact our sales representatives for more information!</p>

WHITE OILS, MEDICINAL

PRODUCT NAME	DESCRIPTION
LUKOIL WHITE 15 Prod. no.: 579085 LUKOIL WHITE 32 Prod. no.: 579087	<ul style="list-style-type: none">■ <i>LUKOIL WHITE are highly refined, aromatic-free, medicinal white oils.</i>■ <i>LUKOIL WHITE meets the requirements of the US FDA for direct food contact, and the purity requirements according to the European Pharmacopoeia monograph „Liquid Paraffin“.</i>■ <i>LUKOIL WHITE oils are ideally suited for lubrication points in the food industry and for pharmaceutical purposes.</i>
APPROVALS/SPECIFICATIONS	
<i>European Pharmacopoeia (PH.EUR.); FDA 21 CFR 172.878, 21 CFR 176.170, 21 CFR 176.180, 21 CFR 178.3570, 21 CFR 178.3620(a); UNITED STATES PHARMACOPOEIA (USP)</i>	

GREASE SPECIALITIES

PRODUCT NAME	DESCRIPTION
LUKOIL ZMO-SPRAY Prod. no.: 589030	<ul style="list-style-type: none"> ■ <i>LUKOIL ZMO-SPRAY is a readily adhering, sprayable gear lubricant, specially developed for use on open lubrication points. Formulated with high pressure additives and solid lubricants (MoS₂), the product is characterised by reliable wear protection under high dust and moisture loads on the lubrication points.</i> ■ <i>LUKOIL ZMO-Spray is used for the lubrication of open-toothed gears with straight and helical teeth, for example in excavators, cranes, gravel processing plants, conveying equipment, sluices and for the preservation as well as maintenance of wire ropes of cranes and construction machinery.</i> ■ <i>Formation of a dry protective film within approx. 10 minutes of application (at 20°C ambient temperature), application temperature range -30 to +150°C.</i>
APPROVALS/SPECIFICATIONS	
DIN 51513 – BC	

ANTI-CORROSION OIL

PRODUCT NAME	DESCRIPTION
LUKOIL KORREX EK 15W-40 Prod. no.: 566430	<ul style="list-style-type: none"> ■ <i>Running-in and conservation oil with high corrosion protection</i> ■ <i>LUKOIL KORREX EK 15W-40 can be used for running in, for functional testing, for internal preservation of engines and for initial operation in the vehicle (even under full load conditions) until replacement with service engine oil in accordance with the manufacturer's instruction.</i> ■ <i>As a highly detergent anticorrosive oil, it is also suitable for the interior preservation of engines, hydraulic systems, compressors, gearboxes as well as for the cleaning or flushing of entire systems.</i> ■ <i>Due to the chemical change of the metal surface, which is achieved by reaction with active components of the metal surface, builds up a relatively soft iron sulfide or iron phosphide layer, which preserves the cylinder liner.</i>
APPROVALS/SPECIFICATIONS	
ACEA A3/B3, E2; API CG-4, SG	



COOLING LUBRICANTS

COOLING LUBRICANTS

WATER-MISCIBLE COOLING LUBRICANTS, EMULSION CONCENTRATES

PRODUCT NAME	DESCRIPTION
LUKOIL MIXCUT GR PREMIUM Prod. no.: 581030	<ul style="list-style-type: none"> ■ <i>LUKOIL MIXCUT GR PREMIUM is a water emulsifiable cooling lubricant concentrate containing mineral oil. This cooling lubricant contains amine and is free of formaldehyde splitters and boric acid. It provides very good corrosion protection properties.</i> ■ <i>This product is used for polishing cast iron, steel, high-alloy steels and aluminium. The tendency to mottle should be checked before processing aluminium and non-ferrous metal alloys.</i> <p>Store frost-free!</p>
LUKOIL MIXCUT GRX Prod. no.: 581032	<ul style="list-style-type: none"> ■ <i>LUKOIL MIXCUT GRX, an emulsifiable cooling lubricant based on mineral oil, is free from formaldehyde splitters, boric acid and secondary amines.</i> ■ <i>This product is universally suitable for turning, drilling and milling cast iron, unalloyed steels, non-ferrous metals and aluminium alloys.</i> <p>Store frost-free!</p>
LUKOIL MIXCUT AL Prod. no.: 581018	<ul style="list-style-type: none"> ■ <i>LUKOIL MIXCUT AL is a very efficient, universally applicable and emulsifiable cooling lubricant based on mineral oils and esters as performance enhancers. The product is free from formaldehyde splitters, boric acid and secondary amines.</i> ■ <i>This product is excellently suited for machining aluminium materials, high-silicon aluminium alloys and non-ferrous metals. Furthermore, this cooling lubricant is ideally suited for general machining such as turning, milling, drilling, sawing of cast iron, steel and high-alloy steels.</i> <p>Store frost-free!</p>
LUKOIL MIXCUT UN PREMIUM Prod. no.: 581036	<ul style="list-style-type: none"> ■ <i>LUKOIL MIXCUT UN PREMIUM is a mineral oil containing and water emulsifiable cooling lubricant concentrate. This cooling lubricant contains amine and is free of formaldehyde splitters and boric acid. This product is distinguished by its very good cooling and flushing properties.</i> ■ <i>This cooling lubricant is ideally suited for machining operations such as turning, milling, drilling, sawing, grinding of cast iron, steel, high-alloy steels and especially of aluminium and its various alloys. The tendency to mottle should be checked before processing aluminium and non-ferrous metal alloys.</i> <p>Store frost-free!</p>
LUKOIL MIXCUT UNX Prod. no.: 581035	<ul style="list-style-type: none"> ■ <i>LUKOIL MIXCUT UNX is a very efficient, universally applicable and emulsifiable cooling lubricant based on mineral oils and esters as performance enhancers. This cooling lubricant contains amine and is free of formaldehyde splitters.</i> ■ <i>This cooling lubricant is suitable for almost all machining processes and materials, especially for very corrosion-sensitive materials. The tendency to mottle should be checked before processing aluminium and non-ferrous metal alloys.</i> <p>Store frost-free!</p>



METAL MACHINING OILS

METAL MACHINING OILS FOR MACHINING, CHLORINE-FREE

PRODUCT NAME	DESCRIPTION
LUKOIL CUT XU Prod. no.: 577615	<ul style="list-style-type: none"> ■ LUKOIL CUT XU is a high-performance mineral cutting oil for medium and tough cutting processes. ■ It is ideally suited for deep hole drilling, thread cutting, grinding with diamond wheels (high demand), hobbing and broaching. It is an ideal metalworking oil for machining low-, high- and ultra-high-alloy steels, CrNi steel, austenitic and martensitic steels, high-alloy cast iron grades (Cr, Ni) and for materials that are difficult to machine (Ni, Co, Ti alloys, etc.).
LUKOIL CUT YU Prod. no.: 577230	<ul style="list-style-type: none"> ■ LUKOIL CUT YU is a universal mineral cutting oil for light to medium cutting processes. ■ It is ideally suited for deep hole drilling and thread cutting on unalloyed and low-alloy steels, carbon steels, cast iron as well as light and non-ferrous metals, and as a forming oil for light forming processes and as a multi-function oil for hydraulic controls.
LUKOIL SUPERGRIND 7 Prod. no.: 577147	<ul style="list-style-type: none"> ■ LUKOIL SUPERGRIND 7 is a synthetic, low viscosity, high performance grinding oil. It is characterised by excellent cooling, flushing and removal properties and ensures the highest surface quality with short machining times. ■ The high ageing resistance results in long service life with stable viscosity for high-speed and deep grinding processes, especially on hard metal materials.
LUKOIL SUPERGRIND 18 Prod. no.: 577150	<ul style="list-style-type: none"> ■ LUKOIL SUPERGRIND 18 is a high-performance mineral grinding oil for high-strength steel materials. It is characterised by good cooling, flushing and removal properties and ensures the highest surface quality with short machining times. The high ageing resistance results in long service life with stable viscosity. ■ It is suitable for machining solid and hardened steels, such as those used in the manufacture of gears and twist drills. This machining oil can also be used as a cutting oil for medium-heavy work with a geometrically defined cutting edge, for example drilling, turning and milling. ■ The product is based on environmentally friendly components, is low in vapour, and odourless during application.
LUKOIL GRIND YEL-MÖST Prod. no.: 577116	<ul style="list-style-type: none"> ■ LUKOIL GRIND YEL is a high-performance synthetic grinding oil which is characterised by optimum material removal, high flushing effect and good compatibility with abrasive papers as well as easy separation of the grinding swarf, for example in centrifugal cleaners. ■ This high-performance grinding oil is ideally suited for high grinding speeds, especially on steel sheets and non-ferrous metals. <p>This product is subject to mineral oil tax!</p>
LUKOIL DRILL DL 10 Prod. no.: 576310 LUKOIL DRILL DL 18 Prod. no.: 576315	<ul style="list-style-type: none"> ■ LUKOIL DRILL DL is a deep-hole mineral drilling oil with an excellent flushing capability. ■ The carefully selected formulation enables rapid advancement and results in good machining accuracy as well as long tool life.

METAL MACHINING OILS

METALWORKING OILS FOR FORMING PROCESSES, CHLORINE-FREE

PRODUCT NAME	DESCRIPTION
LUKOIL DRAW YU 200 Prod. no.: 576130	<ul style="list-style-type: none"> ■ LUKOIL DRAW YU 200 is a highly additivated and mineral forming oil for the most severe forming processes on high-strength materials with high pressure absorption capacity. ■ It is ideally suited for special applications in difficult forming, deep drawing and fine blanking.
LUKOIL SUPERDRAW E 70 Prod. no.: 576140	<ul style="list-style-type: none"> ■ LUKOIL SUPERDRAW E 70 is a forming oil for the most demanding forming operations on high-strength materials. ■ It is beneficially used in non-cutting tapping processes, special applications in difficult forming, wire stamping, cup pressing and deep drawing.
LUKOIL DRAW DY Prod. no.: 576210	<ul style="list-style-type: none"> ■ LUKOIL DRAW DY is a mineral forming oil with best suitability for the processing of non-ferrous metals. ■ It was specially developed for drawing copper wires and vaporises without residue after the annealing process.

METAL MACHINING OILS, HARDENING OILS

PRODUCT NAME	DESCRIPTION
LUKOIL ASSISTO Prod. no.: 571140	<ul style="list-style-type: none"> ■ LUKOIL ASSISTO is a mineral hardening oil and guarantees an excellent hardening result due to its rapid cooling property. ■ Hardening and tempering baths for all types of steels are also filled with this product in large hardening plants due to the excellent practical application.
APPROVALS/SPECIFICATIONS Härte und Vergüteöl nach DIN 51502 (L)	

METAL MACHINING OILS, SLIDWAY OILS

PRODUCT NAME	DESCRIPTION
LUKOIL SLIDO NT 68 Prod. no.: 575550 LUKOIL SLIDO NT 220 Prod. no.: 575555 LUKOIL SLIDO NT 320 Prod. no.: 575560	<ul style="list-style-type: none"> ■ LUKOIL SLIDO NT is an ashless slideway oil based on a new additive technology in combination with solvent raffinate as a base oil and is mainly used for machines in the metalworking industry to avoid stick-slip at low feed rates. The product is characterised by highest adhesion, good corrosion protection, very good demulsibility, high ageing resistance and reduced wear of the slideway. ■ LUKOIL SLIDO NT can be used in the metalworking industry on both vertical and horizontal slideways.
APPROVALS/SPECIFICATIONS SLIDO NT 68 DIN 51502 (CG), 51502 (CGLP), 51517-3 (CLP), 51524-2 (HLP); ISO 19378 (L-GA), 19378 (L-GB), 6743-13 (L-G); Chinese Standard GB 11118.1 LHG; CINCINNATI Machine/ MILACRON/ MAG (FIVES) P-47; SKC Gleittechnik SLIDO NT 220 DIN 51502 (CG), 51502 (CGLP), 51517-3 (CLP); ISO 19378 (L-GA), 19378 (L-GB), 6743-13 (L-G); CINCINNATI Machine/ MILACRON/ MAG (FIVES) P-50; SKC Gleittechnik Demulsification Test SLIDO NT 320 DIN 51502 (CG), 51502 (CGLP), 51517-3 (CLP); ISO 19378 (L-GA), 19378 (L-GB), 6743-13 (L-G); SKC Gleittechnik Demulsification Test	

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