

# **LUBRICANTS FOR INDUSTRIAL APPLICATIONS**

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



# ALWAYS MOVING FORWARD.

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## 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.

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#### **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.





**HYDRAULIKÖLE**

## HYDRAULIC OILS, MINERAL

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER ST 10</b> <i>Prod. no.: 572510</i> <b>LUKOIL GEYSER ST 22</b> <i>Prod. no.: 572520</i> <b>LUKOIL GEYSER ST 32</b> <i>Prod. no.: 572530</i> <b>LUKOIL GEYSER ST 46</b> <i>Prod. no.: 572540</i> <b>LUKOIL GEYSER ST 68</b> <i>Prod. no.: 572550</i> <b>LUKOIL GEYSER ST 100</b> <i>Prod. no.: 572560</i>	<ul style="list-style-type: none"> <li>■ <i>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.</i></li> <li>■ <i>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.</i></li> </ul>	<b>DIN 51524-2: HLP</b> <b>ISO 11158 - HM</b> <b>ISO 6743-4 - HM</b> <b>AGMA 9005-E02 (EP)</b> <b>AIST 126/ 127</b> <b>ASTM BS 6580</b> <b>ASTM D 6158 - HM</b> <b>SAE MS 1004</b> <b>SEB 181 222</b> <b>VDMA 24318 - HLP</b>  <b>ALTA, ANDREAS HOFER, ARBURG, AUTOMA, AVERMANN, BATTENFELD, BOSCH REXROTH RD 90220/ RDE 90235, CMC-TEXPAN, DANIELI, DANIELI 0.000.001, DIEFFEN-BACHER, DRESSTA, DIPLOMATIC, EATON Brochure 03-401-2010, EATON VICKERS E-FDGN-TB002-E/ I-286-S/ M-2950-S, EICKHOFF, ENGEL, FELUWA Pumpen, FERRIT, FIVES CINCINNATI P-68/ P-69/ P-70/ P-76, FLSmidth MAAG, FURUKAWA UNIC, GB 11118.1-2011, GM LS-2, GMS GROUP, HUSKY HS 207, HYDAC International, JCMAS HK, JCMAS HK P-041, JOY MINING MACHINERY, KOPEX MACHINERY, KOPPERN, KRAUSS MAFFEI BERSTORFF, KVANTA, LAEIS, LOESCHE, METSO, NASOSY PPD, PALFINGER, PARKER DENISON HF-0/ HF-1/ HF-2, PRIMETALS TECHNOLOGIES, SACMI, SANY Heavy Industry, SCHULER, SMS GROUP SN 180-2, SMS Siemag, SMT SCHARF, STORK IMM, SULZER Pumps, SUMITOMO SHI DEMAG, THYSENKRUPP Industrial Solutions, TMT, TURBONASOS, UNILOY MALACRON, VOITH, VOITH Turbo, WOJIN SELEX, ZF-TE ML 07H</b>

## HYDRAULIC OILS, MINERAL, MULTI-GRADE

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER M 15</b> <i>Prod. no.: 572620</i> <b>LUKOIL GEYSER M 32</b> <i>Prod. no.: 572630</i> <b>LUKOIL GEYSER M 46</b> <i>Prod. no.: 572640</i> <b>LUKOIL GEYSER M 68</b> <i>Prod. no.: 572680</i>	<ul style="list-style-type: none"> <li>■ <i>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.</i></li> <li>■ <i>LUKOIL GEYSER M has been developed for heavy-duty outdoor hydraulic systems that are exposed to considerable temperature fluctuations.</i></li> </ul>	<b>DIN 51524-3: HVLP</b> <b>ISO 11158 - HV</b> <b>ISO 6743-4 - HV</b> <b>AIST 126/ 127</b> <b>ASTM D 6158 - HV</b> <b>SAE MS 1004 - HV</b> <b>SEB 181 222</b> <b>VDMA 24318 - HVLP</b>  <b>BOSCH REXROTH RD 90220/ 90235, EATON Brochure 03-401-2010, EATON VICKERS E-FDGN-TB002-E, FIVES CINCINNATI P-68/ P-69/ P-70, GB 11118.1-2011, GM LS-2, JCMAS HK, JCMAS HK P-041, PALFINGER, PARKER DENISON HF-0/ HF-1/ HF-2, U.S. STEEL 126/ 127, ZF-TE ML 07H</b>
<b>LUKOIL GEYSER MVI 32</b> <i>Prod. no.: 572632</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL GEYSER MVI 32 is a high quality special hydraulic oil with very low viscosity-temperature dependence and optimum low temperature properties.</i></li> <li>■ <i>LUKOIL GEYSER MVI 32 was developed especially for farm cranes. This makes it much easier to start up hydraulic units at low temperatures.</i></li> </ul>	<b>DIN 51524-3: HVLP</b> <b>VDMA 24318 - HVLP</b>

# HYDRAULIC OILS

## HYDRAULIC OILS, MINERAL, MULTI-GRADE

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER LT 22</b> <i>Prod. no.: 572850</i> <b>LUKOIL GEYSER LT 32</b> <i>Prod. no.: 572855</i> <b>LUKOIL GEYSER LT 46</b> <i>Prod. no.: 572860</i>	<ul style="list-style-type: none"> <li>■ <i>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.</i></li> <li>■ <i>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.</i></li> </ul>	<b>DIN 51524-3: HVLP</b> <b>ISO 11158 - HM/ HV</b> <b>ISO 6743-4 - HV</b> <b>AGMA 9005-E02 (EP)</b> <b>AIST 126/ 127</b> <b>ASTM D 6158 - HM/ HV</b> <b>SAE MS 1004</b> <b>SEB 181 222</b> <b>SWEDISH STANDARD SS 15 54 34</b>  <b>AMCO VEB, BELAZ, BOSCH REXROTH RD 90220/ 90235/ 90245, DRESSTA, EATON VICKERS 35VQ25/ E-FDGN-TB002-E/ I-286-S/ M-2950-S, FERRIT, FIVES CINCINNATI P-68/ P-70, FURUKAWA UNIC, GM LS-2, HAEUSLER, JOY MINING MACHINERY, KOPEX MACHINERY, MANTSINEN, METSO, PALFINGER, PARKER DENISON HF-0/ HF-1/ HF-2, SENNEBOGEN, SIEMENS, SMT SCHARF, SULZER Pumps, THYSENKRUPP Industrial Solutions</b>

## HYDRAULIC OILS, MINERAL, ASH-FREE

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER ZF 32</b> <i>Prod. no.: 572535</i> <b>LUKOIL GEYSER ZF 46</b> <i>Prod. no.: 572546</i> <b>LUKOIL GEYSER ZF 68</b> <i>Prod. no.: 572555</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51524-2: HLP</b> <b>ISO 20763</b> <b>ISO 6743-4 - HM</b> <b>ASTM D 6158 - HM</b> <b>SAE MS 1004</b> <b>VDMA 24 318 - HLP</b>  <b>ALTA, AUTOMA, BOSCH REXROTH RD 90220, DANIELI 0.000.001, EATON VICKERS E-FDGN-TB002-E/ M-2950-S, FIVES CINCINNATI P-68/ P-69/ P-70, GM LS-2, KRAUSS MAFFEI BERSTORFF, PARKER DENISON HF-0/ HF-1/ HF-2, SCHULER, SIEMENS, SMS GROUP SN 180-2, SULZER Pumps, SUMITOMO SHI DEMAG, THYSENKRUPP Industrial Solutions, VOITH Turbo, WOJIN PLAIMM</b>

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

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER MZF 15</b> <i>Prod. no.: 572650</i> <b>LUKOIL GEYSER MZF 32</b> <i>Prod. no.: 572652</i> <b>LUKOIL GEYSER MZF 46</b> <i>Prod. no.: 572653</i> <b>LUKOIL GEYSER MZF 68</b> <i>Prod. no.: 572654</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51524-3: HVLP</b> <b>ISO 6743-4 - HV</b> <b>SEB 181 222-66</b> <b>VDMA 24318 – HVLP</b>

## HYDRAULIC OILS, MINERAL, ASH-FREE, DETERGENT

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER DZF 22</b> <i>Prod. no.: 572740</i> <b>LUKOIL GEYSER DZF 32</b> <i>Prod. no.: 572750</i> <b>LUKOIL GEYSER DZF 46</b> <i>Prod. no.: 572760</i> <b>LUKOIL GEYSER DZF 68</b> <i>Prod. no.: 572770</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51502: HLPD</b> <b>DIN 51517-3: CLP</b> <b>DIN 51524-2: HLP</b> <b>ISO 11158 - HM</b>  <b>DBL 6721.00, THYSSENKRUPP Industrial Solutions</b>
<b>LUKOIL GEYSER MD ZF 46</b> <i>Prod. no.: 572792</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51502: HLPD/HVLP/HVLPD</b> <b>DIN 51517-3: CLP</b> <b>DIN 51524-3: HVLP</b> <b>ISO 6743-4 - HV</b>



# HYDRAULIC OILS

## HYDRAULIC OILS, MINERAL, MULTI-GRADE, DETERGENT

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER MD 46</b> <i>Prod. no.: 572780</i>	<ul style="list-style-type: none"><li>■ 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.</li><li>■ 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.</li></ul>	<b>DIN 51502: HVLPD</b>

## HYDRAULIC OILS, SYNTHETIC

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER S 46</b> <i>Prod. no.: 572731</i>	<ul style="list-style-type: none"><li>■ 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.</li><li>■ 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.</li></ul>	<b>DIN 51524-2: HLP-HC</b> <b>ISO 6743-4 - HS</b> <b>SEB 181 222-66</b> <b>VDMA 24318 - HLP</b>  <b>ARBURG, ENGEL, PALFINGER</b>

## HYDRAULIC OILS, SYNTHETIC, ASH-FREE

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER SZF 46</b> <i>Prod. no.: 572721</i>	<ul style="list-style-type: none"><li>■ 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.</li><li>■ 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.</li></ul>	<b>DIN 51524-2: HLP</b> <b>ISO 6743-4 - HS</b> <b>ÖNORM C 2027-3</b> <b>SEB 181 222-66</b> <b>VDMA 24318 - HLP</b>  <b>SALVAGNINI</b>

## HYDRAULIC OILS, RAPID BIO-DEGRADATION

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER BIO S 15</b> <i>Prod. no.: 572691</i> <b>LUKOIL GEYSER BIO S 32</b> <i>Prod. no.: 572692</i> <b>LUKOIL GEYSER BIO S 46</b> <i>Prod. no.: 572693</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> <li>■ <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></li> </ul>	<b>ÖNORM C 2027 - HEES</b> <b>VDMA 24 568 - HEES</b> <b>DIN ISO 15380 - HEES</b>  <b>PALFINGER, THYSSENKRUPP Industrial Solutions</b>  <i>Biodegradability after 21 days according to ÖNORM C 1158: &gt;90%</i>

## HYDRAULIC OILS, FLAME-RESISTANT

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL GEYSER HFDU 46</b> <i>Prod. no.: 572930</i> <b>LUKOIL GEYSER HFDU 68</b> <i>Prod. no.: 572932</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL GEYSER HFDU is a flame-retardant hydraulic fluid based on polyol ester, meeting the highest requirements for the HFD type.</i></li> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51502: HFDU</b> <b>ÖNORM C 2027 - HEES</b> <b>VDMA 24568 - HEES</b>  <b>DANIELI 0.000.001, SMS GROUP SN 180-2</b>  <b>LUKOIL GEYSER HFDU 46 - APPROVAL:</b> <b>PAUL WURTH</b>



# INDUSTRIAL TRANSMISSION OILS



## INDUSTRIAL TRANSMISSION OILS, MINERAL

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL STEELO HST 68</b> <i>Prod. no.: 579105</i> <b>LUKOIL STEELO HST 100</b> <i>Prod. no.: 579112</i> <b>LUKOIL STEELO HST 150</b> <i>Prod. no.: 579114</i> <b>LUKOIL STEELO HST 220</b> <i>Prod. no.: 579122</i> <b>LUKOIL STEELO HST 320</b> <i>Prod. no.: 579132</i> <b>LUKOIL STEELO HST 460</b> <i>Prod. no.: 579150</i> <b>LUKOIL STEELO HST 680</b> <i>Prod. no.: 579168</i> <b>LUKOIL STEELO HST 1000</b> <i>Prod. no.: 5791170</i>	<ul style="list-style-type: none"> <li>■ <i>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.</i></li> <li>■ <i>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.</i></li> </ul>	<p><b>DIN 51517-3: CLP</b>  <b>ISO 12925-1 - CKC/CKD</b>  <b>AGMA 250.04</b>  <b>AGMA 9005-D94/ E02 (EP)</b>  <b>AIST 224</b>  <b>SEB 181 226</b></p> <p><b>BATTENFELD, DANIELI, DAVID BROWN S1.53.101, FELUWA, GM LS-2 EP, MAG CINCINNATI Machine Gear, MÜLLER WEINGARTEN DT 55005, Siemens FLENDER rev. 13 Code A11, Siemens FLENDER rev. 15 Code A12/ A13/ A14/ A15/ A16/ A17, SMS GROUP SN, STIEBEL Getriebe A2000/ B2000/ P2000/ P3000/ QuarryMaster/ Quarry Master highpower/ S2000, TIMKEN Ltd., U.S. STEEL 222/ 223/ 224</b></p>

## INDUSTRIAL TRANSMISSION OILS, FULLY SYNTHETIC

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL STEELO S 68</b> <i>Prod. no.: 579265</i> <b>LUKOIL STEELO S 100</b> <i>Prod. no.: 579266</i> <b>LUKOIL STEELO S 220</b> <i>Prod. no.: 579270</i> <b>LUKOIL STEELO S 320</b> <i>Prod. no.: 579280</i> <b>LUKOIL STEELO S 460</b> <i>Prod. no.: 579285</i> <b>LUKOIL STEELO S 680</b> <i>Prod. no.: 579290</i>	<ul style="list-style-type: none"> <li>■ <i>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.</i></li> <li>■ <i>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.</i></li> </ul>	<p><b>DIN 51517-3: CLP-HC</b>  <b>ISO 12925-1 - CKT</b>  <b>AGMA 250.04</b>  <b>AGMA 9005-D94/ E02</b>  <b>AIST 224</b>  <b>SEB 181 226</b></p> <p><b>DANA BREVINI, DANIELI 0.000.001, EICKHOFF, FELUWA, FLSmidth MAAG Gear AG, LOESCHE, SIEMENS FLENDER rev. 15 FLENDER-Kennziffer A32/ A33/ A34/ A35, SMS GROUP SN 180-2, STIEBEL Getriebe A2000/ QuarryMaster/ QuarryMaster highpower/ S2000, THYSENKRUPP Industrial Solutions, U.S. STEEL 222/ 223/ 224, TIMKEN Ltd., WIKOV MGI, WINERGY, ZF-Wind</b></p> <p><b>STEELO S 220 &amp; S 320 - APPROVAL:</b>  <b>MONTANARI Giulio &amp; C.</b></p>

# INDUSTRIAL TRANSMISSION OILS

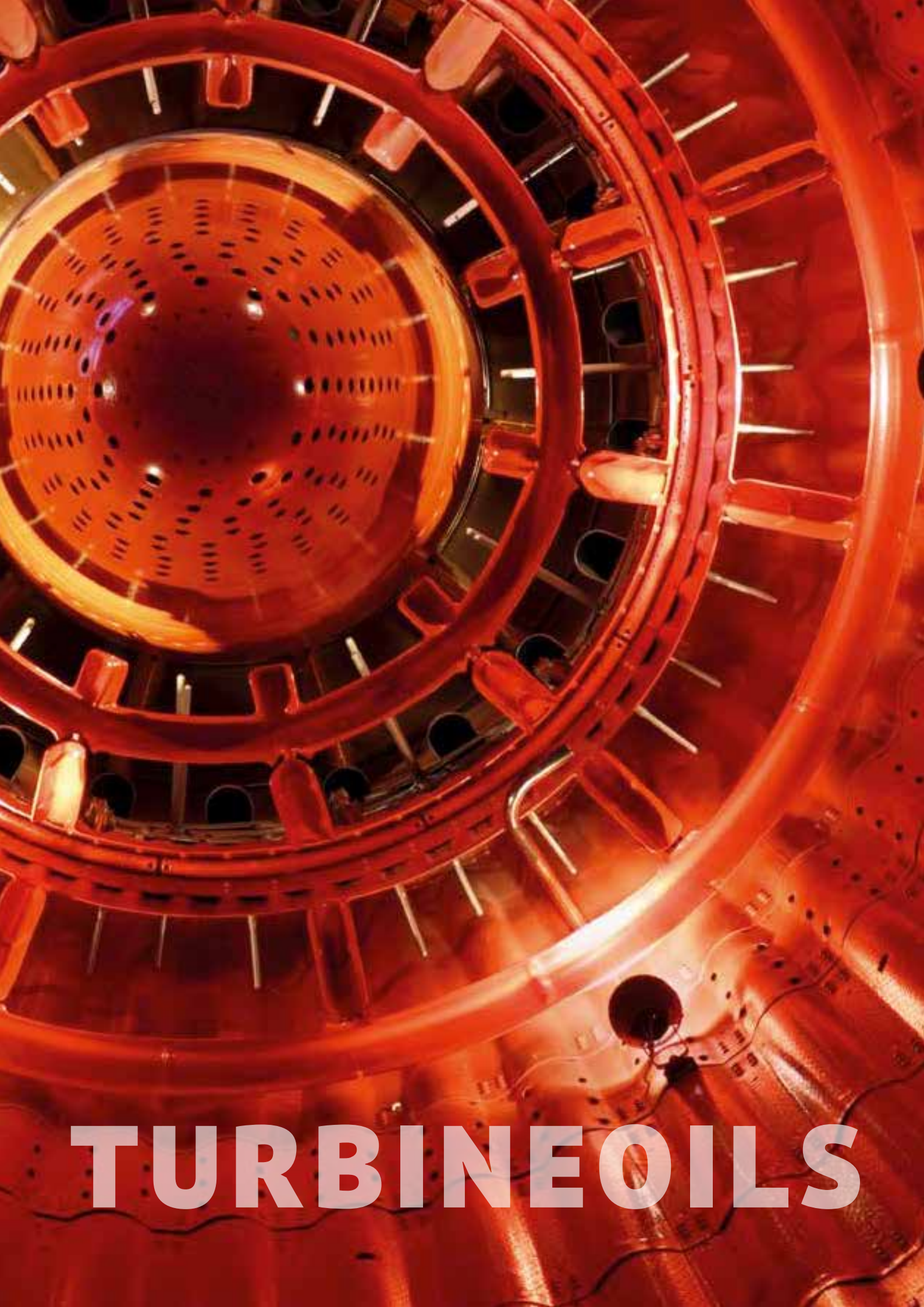
## INDUSTRIAL TRANSMISSION OILS, FULLY SYNTHETIC

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL STEELO PG 220</b> <i>Prod. no.: 579250</i> <b>LUKOIL STEELO PG 460</b> <i>Prod. no.: 579260</i>	<ul style="list-style-type: none"> <li>■ <i>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.</i></li> <li>■ <i>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.</i></li> <li>■ <i>LUKOIL STEELO PG is not compatible with mineral, synthetic and rapidly biodegradable gear oils!</i></li> </ul>	<b>LUKOIL STEELO PG 220</b> <b>LOESCHE-machines S 3</b>  <b>LUKOIL STEELO PG 460</b> <b>LOESCHE-machines S 5</b>  <i>Beide:</i> <b>AGMA 9005-E02 (EP)</b> <b>Alpha Getriebebau</b> <b>DIN 51517-3 (CLP-PG)</b> <b>ISO 12925-1 (CKC)</b> <b>ISO 12925-1 (CKD)</b> <b>ISO 12925-1 (CKE)</b> <b>ISO 12925-1 (CKS)</b> <b>ISO 12925-1 (CKT)</b> <b>ISO 6743-6 (CKC)</b> <b>ISO 6743-6 (CKD)</b> <b>ISO 6743-6 (CKE)</b> <b>ISO 6743-6 (CKS)</b> <b>ISO 6743-6 (CKT)</b> <b>SEW Siemens</b> <b>FLENDER</b> <b>TIMKEN Ltd.</b>

## INDUSTRIAL TRANSMISSION OILS, FULLY SYNTHETIC, RAPID BIO-DEGRADATION

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL STEELO BIO S 150</b> <i>Prod. no.: 579530</i> <b>LUKOIL STEELO BIO S 220</b> <i>Prod. no.: 579540</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51517-3: CLP-E</b> <b>ÖNORM C 1158: &gt;90%</b>  <b>TIMKEN Ltd.</b>





**TURBINEOILS**



# TURBINEOILS

## TURBINE OILS, SYNTHETIC

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL TORNADO S 32</b> <i>Prod. no.: 572260</i> <b>LUKOIL TORNADO S 46</b> <i>Prod. no.: 572265</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51515-1: TD/ 2 - TG</b> <b>AGMA 9005-F16</b> <b>AIST 125</b>  <b>ALSTOM HTGD 90 117 V0001Y (non-EP), GENERAL ELECTRIC GEK 107395 A/ 116372 A/ 27070/ 28143 B/ 32568 K/ 46506 E, MAN Turbo, SIEMENS TLV 9013 04/ 05</b>
<b>LUKOIL TORNADO SEP 32</b> <i>Prod. no.: 572270</i> <b>LUKOIL TORNADO SEP 46</b> <i>Prod. no.: 572275</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51515-2: TGP</b>  <b>GENERAL ELECTRIC GEK 101941A, MAN Turbo, SIEMENS TLV 9013 04/ 05, VOITH Turbo</b>  <i>Tornado SEP 46</i> <b>DIN 51515-2 (TGP)</b> <b>GENERAL ELECTRIC</b> <b>SIEMENS MAT 812109</b> <b>VOITH Turbo</b>
<b>LUKOIL TORNADO SNH 38</b> <i>Prod. no.: 572279</i> <b>LUKOIL TORNADO SNH 46</b> <i>Prod. no.: 572280</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <i>According to the manufacturer's specifications, this product is ideally suited as a lubricating oil for turbines and turbo-compressors.</i></li> </ul>	<b>DIN 51515-1: TD</b>  <b>DRESSER-RAND</b>

## TURBINE OILS, MINERAL

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL TORNADO 32</b> <i>Prod. no.: 572020</i> <b>LUKOIL TORNADO 46</b> <i>Prod. no.: 572010</i> <b>LUKOIL TORNADO 68</b> <i>Prod. no.: 572060</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <i>LUKOIL TORNADO is ideally suited as a lubricating oil for steam turbines, according to the manufacturer's specifications.</i></li> </ul>	<b>DIN 51515-1: TD</b>  <b>BBC, ELIN, FLSmidth MAAG, KK&amp;K (= SIEMENS Turbomachinery Equipment GmbH), KRAFTWERKSUNION (= SIEMENS KWU), MAN Turbo, SIEMENS TLV 9013 04, STAL-LAVAL</b>
<b>LUKOIL TORNADO EP 32</b> <i>Prod. no.: 572220</i> <b>LUKOIL TORNADO EP 46</b> <i>Prod. no.: 572230</i> <b>LUKOIL TORNADO EP 68</b> <i>Prod. no.: 572240</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51506: VB/VBL</b> <b>DIN 51515-1: TDP</b> <b>DIN 51517-2: CL</b> <b>DIN 51524-1: HL</b> <b>SEB 181 222</b> <b>VDMA 24318 - HL</b>  <b>KRAFTWERKSUNION (= SIEMENS KWU), SIEMENS TLV 9013 04</b>
<b>LUKOIL TORNADO EP-AS 32</b> <i>Prod. no.: 572226</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul> <p><i>Product upon request!</i></p>	<b>DIN 51515-1: TDP</b>
<b>LUKOIL TORNADO AQUA 78</b> <i>Prod. no.: 572255</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL TORNADO AQUA 78 is characterised by its excellent oxidation resistance as well as its particularly good demulsifying and air separation properties.</i></li> <li>■ <i>LUKOIL TORNADO AQUA 78 is free from chlorine, PCB and PCT.</i></li> <li>■ <i>According to the manufacturer's specifications, it is ideally suited as a lubricating oil for water turbines.</i></li> </ul>	<b>DIN 51515-1: TD</b> <b>ISO 8086-TGA/ TSA</b>  <b>BBC, DEMAG-DELAVAL, ELIN, KRAFTWERKSUNION (= SIEMENS KWU), MAN Turbo, STAL-LAVAL</b>

## TURBINENÖL, ADDITIV

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL TURBOFRESH</b> <i>Prod. no.: 571660</i>	<ul style="list-style-type: none"> <li>■ <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></li> </ul>	



# COMPRESSOR OILS



## COMPRESSOR OILS, MINERAL

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL STABIO VDL 46</b> <i>Prod. no.: 571828</i> <b>LUKOIL STABIO VDL 68</b> <i>Prod. no.: 571830</i> <b>LUKOIL STABIO VDL 100</b> <i>Prod. no.: 571840</i> <b>LUKOIL STABIO VDL 150</b> <i>Prod. no.: 571850</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <i>Depending on the manufacturer's specifications, LUKOIL STABIO VDL is suitable for use in ammonia compressors and as vacuum pump oil.</i></li> </ul>	<b>DIN 51506:</b> VB/VBL/VC/VCL/VDL <b>ISO 6521 -</b> DAA/ DAB/ DAG/ DAH
<b>LUKOIL STABIO 460</b> <i>Prod. no.: 571885</i> <b>LUKOIL STABIO 680</b> <i>Prod. no.: 571890</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL STABIO is a high viscosity, zinc-free mineral compressor oil for use in heavy duty compressors at medium speed and high temperatures.</i></li> <li>■ <i>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.</i></li> </ul> <p><i>Products upon request!</i></p>	

## COMPRESSOR OILS, MINERAL, DETERGENT

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL STABIO D 68</b> <i>Prod. no.: 571823</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul>	<b>DIN 51506:</b> VB/VBL/VC/VCL/VDL <b>ISO 6521 -</b> DAA/ DAB/ DAG/ DAH

# COMPRESSOR OILS



## COMPRESSOR OILS, SYNTHETIC

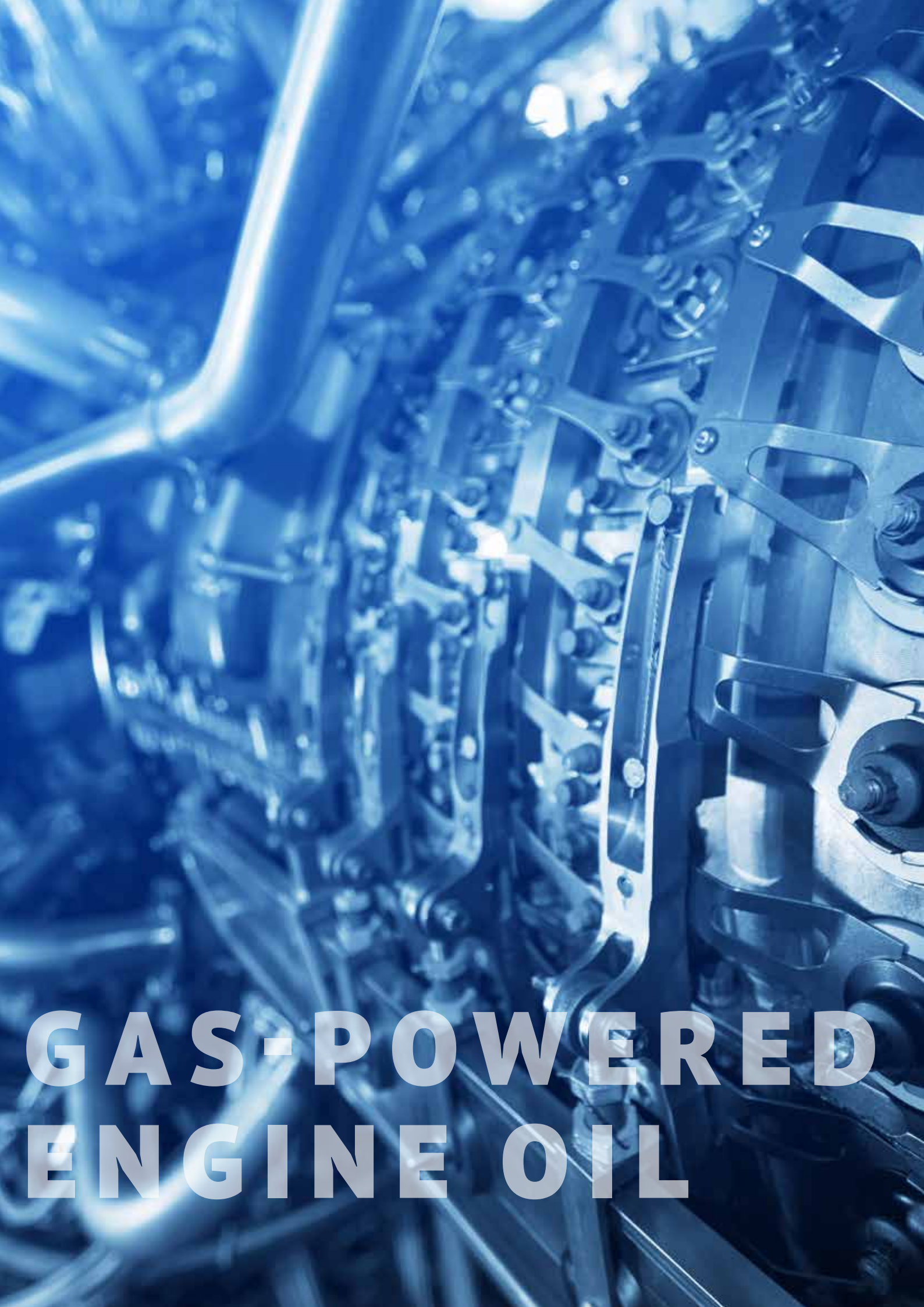
PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL STABIO S 32</b> <i>Prod. no.: 571530</i> <b>LUKOIL STABIO S 46</b> <i>Prod. no.: 571532</i> <b>LUKOIL STABIO S 68</b> <i>Prod. no.: 571535</i> <b>LUKOIL STABIO S 100</b> <i>Prod. no.: 571540</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL STABIO 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.</i></li> <li>■ <i>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.</i></li> </ul>	<b>DIN 51506:</b> VB-HC/VBL-HC/VC-HC/VCL-HC/VDL-HC <b>DIN 51524-3:</b> HVLP-HC <b>ISO 6521 -</b> DAA/ DAB/ DAG/ DAH
<b>LUKOIL STABIO SYNTH 100</b> <i>Prod. no.: 571670</i> <b>LUKOIL STABIO SYNTH 150</b> <i>Prod. no.: 571680</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL STABIO SYNTH has excellent ageing resistance, minimal residue formation, good sealing compatibility, an extremely low freezing point, low evaporation tendency and excellent foaming behaviour. Sulphur- and ash-free wear protection additives and synthetic base materials also make LUKOIL STABIO SYNTH ideal for heavy and long use in the latest high-performance appliances.</i></li> <li>■ <i>LUKOIL STABIO SYNTH was developed mainly for use in high-performance screw compressors, turbo compressors, piston compressors (also in natural gas service) and hydraulic systems. It can also be used for a wide range of transmissions and converters.</i></li> </ul> <p><i>Products upon request!</i></p>	<b>DIN 51506:</b> VB-HC/VBL-HC/VC-HC/VCL-HC/VDL/VDL-HC <b>DIN 51524-3:</b> HVLP-HC <b>ISO 6521 -</b> DAA/ DAB/ DAG/ DAH

# CIRCULATING OILS

## CIRCULATING OILS

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL INTEGO 320</b> <i>Prod. no.: 572355</i> <b>LUKOIL INTEGO 460</b> <i>Prod. no.: 572350</i>	<ul style="list-style-type: none"> <li>■ LUKOIL INTEGO are high quality mineral lubricating oils specially developed for applications with Morgoil<sup>®</sup> bearings. They are characterised by excellent resistance to ageing, particularly good air and water separation ability and reliable wear and corrosion protection.</li> <li>■ 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.</li> </ul>	<b>DIN 51501</b> – L-AN <b>DIN 51502</b> – H <b>DIN 51517-2</b> : CL <b>DANIELI</b> 0.000.001 <b>SMS GROUP SN 180-3</b> (X-Roll Oil Bearing-Standard Lubricants)
<b>LUKOIL ROUND 10</b> <i>Prod. no.: 573060</i> <b>LUKOIL ROUND 32</b> <i>Prod. no.: 573070</i> <b>LUKOIL ROUND 46</b> <i>Prod. no.: 573075</i> <b>LUKOIL ROUND 68</b> <i>Prod. no.: 573080</i> <b>LUKOIL ROUND 100</b> <i>Prod. no.: 573085</i> <b>LUKOIL ROUND 150</b> <i>Prod. no.: 573085</i> <b>LUKOIL ROUND 220</b> <i>Prod. no.: 573095</i> <b>LUKOIL ROUND 320</b> <i>Prod. no.: 573100</i> <b>LUKOIL ROUND 460</b> <i>Prod. no.: 573105</i>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ 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.</li> </ul>	<b>DIN 51506</b> – VB/VBL <b>DIN 51517-2</b> : CL <b>DIN 51524-1</b> : HL <b>ISO 6521</b> – DAA/ DAB <b>SEB 181 222</b> <b>VDMA 24318</b> – HL <b>KRAUSS MAFFEI BERSTORFF LAEIS</b>
<b>LUKOIL LUBE P 460</b> <i>Prod. no.: 573050</i>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ 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.</li> </ul>	<b>DIN 51501</b> <b>DIN 51506</b> (VB, VBL) <b>DIN 51517-1</b> (C) <b>ISO 6743-3</b> (DAA) <b>ISO 6743-4</b> (HH) <b>ISO 11158</b> (HH)
<b>LUKOIL LUBE PX 15</b> <i>Prod. no.: 573202</i> <b>LUKOIL LUBE PX 32</b> <i>Prod. no.: 573204</i> <b>LUKOIL LUBE PX 68</b> <i>Prod. no.: 573208</i> <b>LUKOIL LUBE PX 100</b> <i>Prod. no.: 573210</i>	<ul style="list-style-type: none"> <li>■ 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 &gt; 90) and good lubricating properties. This product series has excellent demulsification properties, therefore water and other contaminants are quickly separated from the oil.</li> <li>■ 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.</li> </ul>	<b>DIN 51501</b> <b>DIN 51506</b> (VB, VBL) <b>DIN 51517-1</b> (C) <b>ISO 6743-3</b> (DAA) <b>ISO 6743-4</b> (HH) <b>ISO 11158</b> (HH)





# **GAS-POWERED ENGINE OIL**

# GAS-POWERED ENGINE OIL

## GAS-POWERED ENGINE OIL FOR STATIONARY ENGINES

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL EFFORSE XDI 4004</b> <i>Prod. no.: 566056</i>	<ul style="list-style-type: none"> <li>■ LUKOIL EFFORSE 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.</li> <li>■ 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.</li> </ul> <p><b>Not suitable for use in petrol and diesel engines!</b></p>	<b>CATERPILLAR</b> TR 2105/19 EN (CG132/ CG132B/ CG170/ CG 260/ CG260 (4.5)), <b>CATERPILLAR</b> 3300/ 3400/ 3500/ 3600, <b>INNIO Jenbacher</b> TA 1000-1109 Type 2/ Type 3/ Type 4 (version A&B)/ Type 6 (version C&E), <b>MWM</b> TR 0199-99-02105-19/ 2105-19 EN (TCG 2016, TCG 2020, TCG 2032, TCG 2032B, TCG 3016), <b>WÄRTSILÄ</b> , <b>CUMMINS</b> QSK 60G/ QSV 81G/ QSV 91G, <b>DEUTZ</b> 0199-99-2105/7, <b>MAN</b> M 3271-2, <b>MTU</b> MLT 5074, A001061/29E (Category 1) Onsite Energy 400 & 4000 series, <b>PERKINS</b> engine series 4000, <b>ROLLS-ROYCE</b> , <b>WAUKESHA</b> APG/ VGF/ VHP/ VSG
<b>LUKOIL EFFORSE 4004</b> <i>Prod. no.: 566025</i>	<ul style="list-style-type: none"> <li>■ LUKOIL EFFORSE 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.</li> <li>■ 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 EFFORSE 4004 is also suitable for dual-fuel engines. Furthermore, it meets the requirements for MAN Diesel &amp; Turbo medium-speed engines.</li> </ul> <p><b>Not suitable for use in petrol and diesel engines!</b></p>	<b>CATERPILLAR</b> , <b>CATERPILLAR</b> 3300/ 3400/ 3500/ 3600, <b>DEUTZ</b> 0199-99-2105/7, <b>INNIO Jenbacher</b> TA 1000-1109, Type 2/ Type 3/ Type 4 (version A&B)/ Type 6 (version C&E)/ Type 6 (version F&J), <b>MAN</b> Diesel & Turbo, <b>MAN</b> M 3271-2, <b>MHI</b> GS16R2, <b>MITSUBISHI</b> HIET, <b>ROLLS-ROYCE</b> , <b>ROLLS-ROYCE</b> K-TYP engines, <b>WÄRTSILÄ</b> 175SG/ 20DF/ 220SG/ 25SG/ 28SG/ 32DF/ 34DF/ 34SG/ 50DF/ 50SG, <b>CUMMINS</b> QSK 60G/ QSV 81G/ QSV 91G, <b>GUASCOR</b> FGLD/ SFGD, <b>MTU</b> MLT 5074, A001061/29E (Category 1), <b>Onsite Energy</b> 400 & 4000 series, <b>MWM</b> TR 0199-99-2105, <b>PERKINS</b> engine series 4000, <b>WAUKESHA</b>
<b>LUKOIL EFFORSE HD 4009</b> <i>Prod. no.: 566055</i>	<ul style="list-style-type: none"> <li>■ LUKOIL EFFORSE 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.</li> <li>■ 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.</li> </ul> <p><b>Not suitable for use in petrol and diesel engines!</b></p>	<b>INNIO Jenbacher</b> TA 1000-1109, Type 2/ Type 3, <b>MAN</b> M 3271-1/ 3271-4, <b>MTU</b> BR 400, <b>TEDOM</b> 61-0-0281.1., <b>MDE</b> 57 AP 2008, <b>MIL-L</b> 2104B/ 2104C





# FORMWORK AND RELEASE OILS



## FORMWORK AND RELEASE OILS

PRODUCT NAME	DESCRIPTION
<b>LUKOIL LAYER ASPHALT</b> Prod. no.: 580506	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ It is mainly used on tipper surfaces, asphaltting equipment and rollers.</li> </ul>
<b>LUKOIL LAYER BIO</b> Prod. no.: 580511	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ 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.</li> </ul>
<b>LUKOIL LAYER BS3</b> Prod. no.: 580560 <b>LUKOIL LAYER BS4</b> Prod. no.: 580561	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ The excellent film stability ensures perfect separation and thus clean surfaces of the concrete block and casting mould.</li> </ul>
<b>LUKOIL LAYER CLASSIC</b> Prod. no.: 580521	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ LUKOIL LAYER CLASSIC is suitable for exposed concrete and precast concrete parts with wooden, plastic or steel formwork.</li> </ul>
<b>LUKOIL LAYER EC</b> Prod. no.: 580518	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ 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.</li> </ul>
<b>LUKOIL LAYER PROTECT</b> Prod. no.: 580516	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ LUKOIL LAYER PROTECT significantly reduces cleaning times and/or cleaning costs and extends the service life of the treated equipment.</li> </ul>
<b>LUKOIL LAYER PROTECT LT</b> Prod. no.: 580515	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ LUKOIL LAYER PROTECT LT significantly reduces cleaning times and/or cleaning costs and extends the service life of the treated equipment.</li> <li>■ 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.</li> </ul>

# FORMWORK AND RELEASE OILS

## FORMWORK AND RELEASE OILS

PRODUCT NAME	DESCRIPTION
<b>LUKOIL KORREX O 5-MÖST</b> <i>Prod. no.: 576561</i>	<ul style="list-style-type: none"><li>■ <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></li><li>■ <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></li></ul>
<b>LUKOIL BIOFLUID MF 10</b> <i>Prod. no.: 580512</i>	<ul style="list-style-type: none"><li>■ <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></li><li>■ <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></li></ul>





LOSS  
LUBRICATION



# LOSS LUBRICATION

## LOSS LUBRICANTS, CHAIN SAW OILS

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL BIOSEGAROL E 100</b> <i>Prod. no.: 580481</i>	<ul style="list-style-type: none"> <li>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.</li> <li>LUKOIL BIOSEGAROL E 100 is primarily used for the lubrication of guide bar and chain for chain saws of all manufacturers.</li> </ul>	<b>ÖNORM C 2030</b> <i>Biologische Abbaubarkeit nach 21 Tagen nach ON C 1158: &gt;90 %</i>
<b>LUKOIL CHAINSAW H 150</b> <i>Prod. no.: 580415</i>	<ul style="list-style-type: none"> <li>LUKOIL CHAINSAW H 150 ensures the best lubricating and adhesive properties.</li> <li>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.</li> </ul>	<b>DIN 51502 – CL</b>
<b>LUKOIL BIOCHAIN LIGHT</b> <i>Prod. no.: 580431</i> <b>LUKOIL BIOCHAIN MEDIUM</b> <i>Prod. no.: 580432</i> <b>LUKOIL BIOCHAIN HEAVY</b> <i>Prod. no.: 580433</i>	<ul style="list-style-type: none"> <li>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.</li> <li>They are ideally suited for use in loss lubrication systems in the wood and sawmill industry.</li> </ul>	<b>THYSSENKRUPP</b> <i>Industrial Solutions</i>
<b>LUKOIL CHAIN LIGHT</b> <i>Prod. no.: 580427</i> <b>LUKOIL CHAIN MEDIUM</b> <i>Prod. no.: 580428</i> <b>LUKOIL CHAIN HEAVY</b> <i>Prod. no.: 580429</i>	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	<b>THYSSENKRUPP</b> <i>Industrial Solutions</i>

## LOSS LUBRICANTS, RECIPROCATING SAW OILS

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL LUBE GF 100</b> <i>Prod. no.: 580441</i> <b>LUKOIL LUBE GF 150</b> <i>Prod. no.: 580442</i> <b>LUKOIL LUBE GF 220</b> <i>Prod. no.: 580443</i> <b>LUKOIL LUBE GF 320</b> <i>Prod. no.: 580444</i> <b>LUKOIL LUBE GF 460</b> <i>Prod. no.: 580445</i>	<ul style="list-style-type: none"> <li>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.</li> <li>These lubricants are ideally suited for use in slideways and guideways, also of high-speed saw gates, gears and other lubrication points.</li> </ul>	<b>DIN 51502 – CGLP/CLP</b>

## LOSS LUBRICANTS, PNEUMATIC OILS FOR PNEUMATIC TOOLS

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL AIR 100</b> <i>Prod. no.: 575120</i>	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	<b>ISO 6743 – 11: PAC &amp; PBC</b>



**SPECIAL  
PRODUCTS**



# SPECIAL PRODUCTS

## TRANSFORMER OIL

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL TRAF0 IEC II</b> <i>Prod. no.: 552740</i>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ 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.</li> </ul>	<b>ASTM D 3487</b> <b>BS 148</b> <b>ČSN 656845</b> <b>DIN EN 60296/ VDE 0370-1</b> <b>IEC 60296</b> <b>MSZ 153/3</b> <b>ÖNORM EN 60296</b>

## HEAT TRANSFER FLUIDS

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL THERMO 32</b> <i>Prod. no.: 571620</i>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ Ideally suited for use in industrial heat transfer systems as well as thermos containers for highly viscous materials, for example in road construction.</li> </ul>	<b>DIN 51522 – Q</b> <b>ISO 6743-12: Q</b>
<b>LUKOIL THERMOCLEAN</b> <i>Prod. no.: 571655</i>	<ul style="list-style-type: none"> <li>■ LUKOIL THERMOCLEAN is a high-detergent additive for cleaning contaminated circulating systems, especially for heat transfer oil systems.</li> </ul> <p><b>Please contact our sales representatives for more information!</b></p>	

## WHITE OILS, MEDICINAL

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL WHITE 15</b> <i>Prod. no.: 579085</i> <b>LUKOIL WHITE 32</b> <i>Prod. no.: 579087</i>	<ul style="list-style-type: none"> <li>■ LUKOIL WHITE are highly refined, aromatic-free, medicinal white oils.</li> <li>■ 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".</li> <li>■ LUKOIL WHITE oils are ideally suited for lubrication points in the food industry and for pharmaceutical purposes.</li> </ul>	<b>European Pharmacopoeia (PH.EUR.)</b> <b>FDA 21 CFR 172.878/ 176.170/ 176.180/ 178.3570/ 178.3620(a)</b> <b>GB 9685-2016</b> <b>United States Pharmacopoeia (USP)</b>

## GREASE SPECIALITIES

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL ZMO-SPRAY</b> <i>Prod. no.: 589030</i>	<ul style="list-style-type: none"> <li>■ 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 (MoS<sub>2</sub>), the product is characterised by reliable wear protection under high dust and moisture loads on the lubrication points.</li> <li>■ 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.</li> <li>■ Formation of a dry protective film within approx. 10 minutes of application (at 20°C ambient temperature), application temperature range -30 to +150°C.</li> </ul>	<b>DIN 51513 – BC</b>





# COOLING LUBRICANTS

# COOLING LUBRICANTS



## WATER-MISCIBLE COOLING LUBRICANTS, EMULSION CONCENTRATES

PRODUCT NAME	DESCRIPTION
<b>LUKOIL MIXCUT GR PREMIUM</b> <i>Prod. no.: 581030</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul> <p><b>Store frost-free!</b></p>
<b>LUKOIL MIXCUT GRX</b> <i>Prod. no.: 581032</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL MIXCUT GRX, an emulsifiable cooling lubricant based on mineral oil, is free from formaldehyde splitters, boric acid and secondary amines.</i></li> <li>■ <i>This product is universally suitable for turning, drilling and milling cast iron, unalloyed steels, non-ferrous metals and aluminium alloys.</i></li> </ul> <p><b>Store frost-free!</b></p>
<b>LUKOIL MIXCUT AL</b> <i>Prod. no.: 581018</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul> <p><b>Store frost-free!</b></p>
<b>LUKOIL MIXCUT UN PREMIUM</b> <i>Prod. no.: 581036</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul> <p><b>Store frost-free!</b></p>
<b>LUKOIL MIXCUT UNX</b> <i>Prod. no.: 581035</i>	<ul style="list-style-type: none"> <li>■ <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></li> <li>■ <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></li> </ul> <p><b>Store frost-free!</b></p>





# METAL MACHINING OILS



# METAL MACHINING OILS

## METAL MACHINING OILS FOR MACHINING, CHLORINE-FREE

PRODUCT NAME	DESCRIPTION
<b>LUKOIL CUT XU</b> <i>Prod. no.: 577615</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL CUT XU is a high-performance mineral cutting oil for medium and tough cutting processes.</i></li> <li>■ <i>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.).</i></li> </ul>
<b>LUKOIL CUT YU</b> <i>Prod. no.: 577230</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL CUT YU is a universal mineral cutting oil for light to medium cutting processes.</i></li> <li>■ <i>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.</i></li> </ul>
<b>LUKOIL SUPERGRIND 7</b> <i>Prod. no.: 577147</i>	<ul style="list-style-type: none"> <li>■ <i>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.</i></li> <li>■ <i>The high ageing resistance results in long service life with stable viscosity for high-speed and deep grinding processes, especially on hard metal materials.</i></li> </ul>
<b>LUKOIL SUPERGRIND 18</b> <i>Prod. no.: 577150</i>	<ul style="list-style-type: none"> <li>■ <i>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.</i></li> <li>■ <i>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.</i></li> <li>■ <i>The product is based on environmentally friendly components, is low in vapour, and odourless during application.</i></li> </ul>
<b>LUKOIL GRIND YEL-MÖST</b> <i>Prod. no.: 577116</i>	<ul style="list-style-type: none"> <li>■ <i>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.</i></li> <li>■ <i>This high-performance grinding oil is ideally suited for high grinding speeds, especially on steel sheets and non-ferrous metals.</i></li> </ul> <p><b>This product is subject to mineral oil tax!</b></p>
<b>LUKOIL DRILL DL 10</b> <i>Prod. no.: 576310</i> <b>LUKOIL DRILL DL 18</b> <i>Prod. no.: 576315</i>	<ul style="list-style-type: none"> <li>■ <i>LUKOIL DRILL DL is a deep-hole mineral drilling oil with an excellent flushing capability.</i></li> <li>■ <i>The carefully selected formulation enables rapid advancement and results in good machining accuracy as well as long tool life.</i></li> </ul>

# METAL MACHINING OILS

## METALWORKING OILS FOR FORMING PROCESSES, CHLORINE-FREE

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

## METAL MACHINING OILS, HARDENING OILS

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL ASSISTO</b> <i>Prod. no.: 571140</i>	<ul style="list-style-type: none"> <li>■ LUKOIL ASSISTO is a mineral hardening oil and guarantees an excellent hardening result due to its rapid cooling property.</li> <li>■ 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.</li> </ul>	Härte und Vergüteöl nach <b>DIN 51 502L</b>

## METAL MACHINING OILS, SLIDEWAY OILS

PRODUCT NAME	DESCRIPTION	SPECIFICATIONS
<b>LUKOIL SLIDO NT 68</b> <i>Prod. no.: 575550</i> <b>LUKOIL SLIDO NT 220</b> <i>Prod. no.: 575555</i>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ LUKOIL SLIDO NT can be used in the metalworking industry on both vertical and horizontal slideways.</li> </ul>	<b>DIN 51502</b> – CG/CGLP <b>DIN 51517-3</b> : CLP <b>ISO 19378 GA/ GB</b> <b>ISO 6743-13</b> : G <b>CINCINNATI</b> Machine/MILACRON/ <b>MAG (FIVES)</b> P-47/ P-50 <b>SKC</b> Gleittechnik- Demulsification-Test

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