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# LUBRICANTS FOR COMPRESSORS AND VACUUM PUMPS



***LIQUID TECHNOLOGY***

## OVERVIEW

1 Mineral lubricants p.04

2 Synthetic lubricants p.07

3 Food grade lubricants p.09

4 Quality guarantee p.10

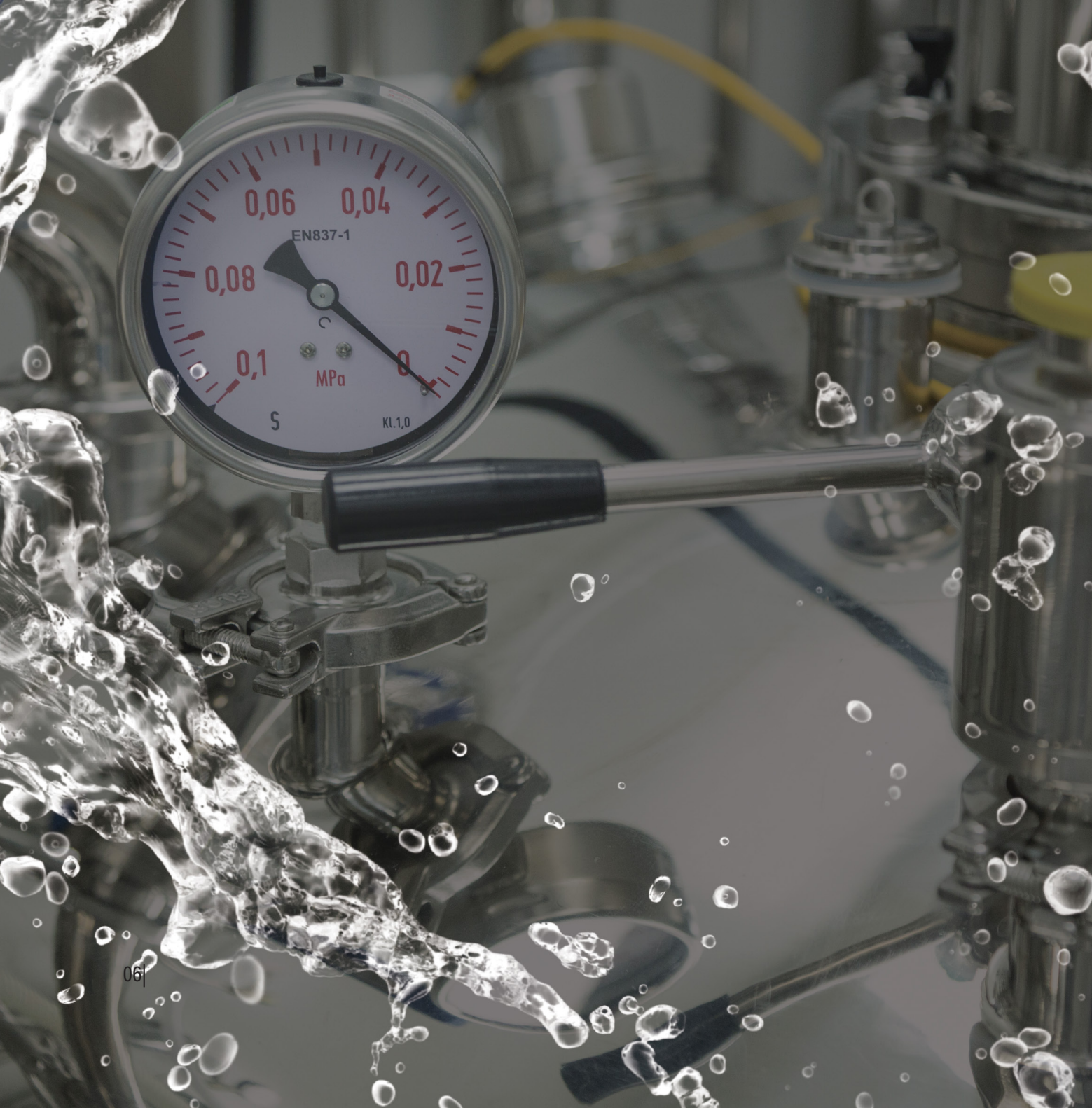
## LUBRICANTS FOR COMPRESSORS

	Piston compressor	Rotary screw compressor	Rotary vane compressor	Vacuum pump
<b>Mineral</b>				
Compressor P	X			
Compressor VRD		X	X	
<b>Synthetic</b>				
Compressor VSP		X	X	
Compressor E	X	X		X
Compressor VRH		X	X	
Super Vacuum SL				X
<b>Food grade</b>				
ESCA Compressor P	X	X	X	X

## 1 MINERAL LUBRICANTS FOR COMPRESSORS AND VACUUM PUMPS

Product and applications	Specifications	Standards	Viscosities	Base oil
<p><b>Compressor P</b> This ashless oil has been specially formulated for the lubrication of piston compressors for compressed air.</p> <p>The unique additives in this fluid ensure exceptionally reliable protection of the machine.</p>	<ul style="list-style-type: none"> <li>• Combats the formation of carbon deposits on pistons, valves and compressed air lines.</li> <li>• Good resistance to oxidation, corrosion and wear and tear</li> <li>• High flash point</li> </ul>	DIN 51506 VBL/VCL/ VDL	68 - 100 - 150	Mineral
<p><b>Compressor VRD</b> This oil with dispersive properties was specially developed for the lubrication of rotary screw and rotary vane compressors.</p>	<ul style="list-style-type: none"> <li>• Prevents dust particles and oxidation products from sticking together</li> <li>• Ability to release water</li> <li>• Oil-change intervals of up to 3,000 working hours</li> <li>• No foaming</li> </ul>	DIN 51506 VDL ISO 6743 DAG/DAH	46	Mineral





## 2 SYNTHETIC LUBRICANTS FOR COMPRESSORS

Product and applications	Specifications	Standards	Viscosities	Base oil
<p><b>Compressor VSP</b> This compressor oil has been developed for the lubrication of oil-lubricated rotary screw and rotary vane compressors, even under the heaviest conditions.</p>	<ul style="list-style-type: none"> <li>Low oil usage due to negligible volatility</li> <li>Combats the formation of carbon deposits</li> <li>Good resistance to oxidation, corrosion and wear and tear</li> <li>Excellent thermal stability</li> <li>The high quality of the oil makes possible longer oil-change intervals of up to 6,000 working hours</li> </ul>	ISO 6743 DAJ	46 - 68	Synthetic PAO
<p><b>Compressor E</b> This compressor lubricant is based on a high-quality ester. The fluid has been developed with the latest additive technology and in this way surpasses all standard OEM requirements for rotary screw and rotary vane compressors and vacuum pumps.</p>	<ul style="list-style-type: none"> <li>Excellent oxidation stability</li> <li>Exceptional thermal resistance</li> <li>Good demulsibility and air release</li> <li>Good metal wetting ability</li> <li>Extended oil-change intervals</li> </ul>	DIN 51506:2017-08 VDL ISO-L-DAB / DVC (according to ISO/DIS 6743-3)	100	Synthetic Ester

Product and applications	Specifications	Standards	Viscosities	Base oil
<p><b>Compressor VRH</b> Lubricant developed for air compressors, rotary screw and rotary vane compressors.</p> <p>Compressor VRH ensures that your compressors continue to deliver maximum performance so that stoppages are kept to an absolute minimum and that the life cycle costs reduce sharply.</p>	<ul style="list-style-type: none"> <li>Extremely high thermal stability</li> <li>Prevents contamination of outlet valves at high temperatures</li> <li>Increased working life of components</li> <li>Excellent resistance to oxidation</li> <li>Extended oil-change intervals</li> </ul>	DIN 51506 VBL/VCL/ VDL 46	46	Semi-synthetic
<p><b>Super Vacuum SL</b> Super Vacuum SL is a lubricant that has been specially developed for vacuum pumps. The specific additives ensure problem-free operation of numerous pumps even under the toughest conditions.</p>	<ul style="list-style-type: none"> <li>Exceptionally stable, even at high temperatures</li> <li>Adapted viscosity for a rapid and even oil distribution and good sealing of blade, rotor and cylinder walls.</li> <li>Extremely good demulsibility</li> <li>Good oxidation stability for a long working life of the oil</li> <li>Sufficient film strength for minimal friction and wear and tear</li> </ul>	/	100	Synthetic

### 3 FOOD GRADE LUBRICANTS FOR COMPRESSORS

Product and applications	Specifications	Standards	Viscosities	Base oil
<p><b>ESCA Compressor P</b> This compressor lubricant is ideal for use in oil-fed screw and rotary vane compressors in the pharmaceutical and food industries.</p> <p>ESCA COMPRESSOR P oils meet the requirements of the FDA 21 CFR 178.3570 and are H1 registered for processes where occasional contact with food may occur.</p>	<ul style="list-style-type: none"> <li>Enhanced anti-rust and anti-oxidation properties.</li> <li>Excellent anti-wear and ultimate pressure abilities</li> <li>Good demulsibility of water</li> <li>Neutral in relation to seals</li> <li>Lower energy consumption</li> <li>No deposits/lacquer formation</li> </ul>	NSF H1 KOSHER HALAL	32 - 46 - 68 - 100	Synthetic PAO

### 3 QUALITY GUARANTEE

Unil Lubricants works on an exclusive basis with an extensive and high-performance laboratory. This laboratory is also commercially active in the field of condition monitoring. In this way, we can also offer solutions through proactive maintenance that can drastically extend the lifespan of your machine.

#### **Various quality controls**

All Unil lubricants are subjected to extensive quality controls both before, during and after production. The production manager takes a sample of the delivered product upon receipt of the base oils and other raw materials. The raw materials are only accepted and taken into production if they comply with all the predefined specifications.

After the production of a certain product, a sample is taken from the production tank. This sample undergoes a similar amount of tests as the first sample, where it is checked for viscosity at 40° C and 100° C, colour, viscosity index, but also for water content and content of phosphorus, zinc, magnesium, calcium and sulphur. In addition, additional critical tests may be imposed on products developed for specific applications.

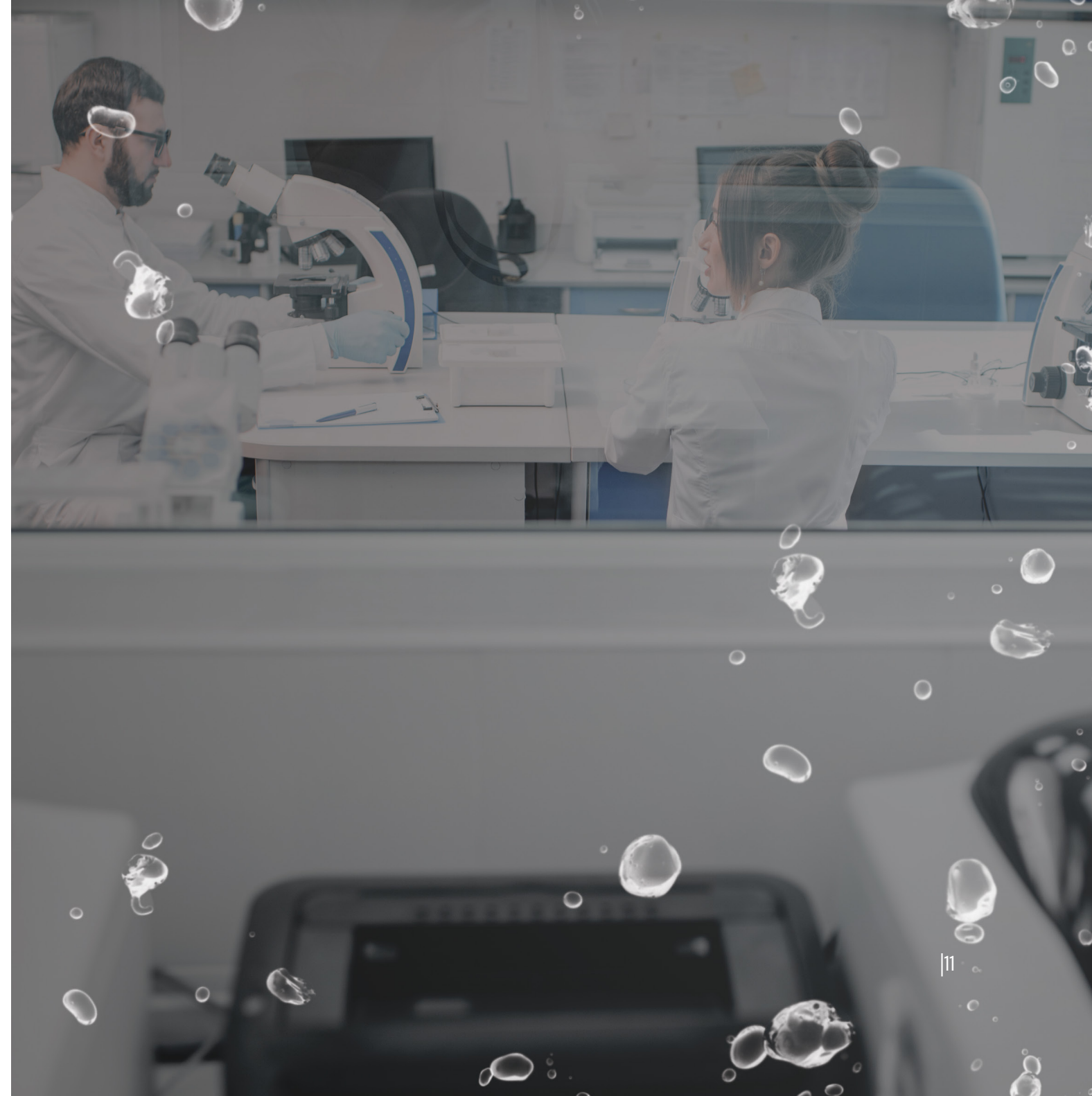
After filling the products in smaller packages such as an IBC or a barrel, a third sample is taken. This sample undergoes the previous tests again to make sure that the quality from raw material to finished product is maintained.

#### **Extra service**

Customers of Unil Lubricants can also make use of the expertise of the laboratory services. By carrying out regular analyses, you will be able to carry out proactive maintenance. A proactive maintenance method focuses on the causes of machine wear and tear and defects. This strategy allows considerable savings in terms of machine maintenance, since it is possible to intervene before an issue or defect in the machine is visible. In this way, we can extend the service life of mechanical machines by up to 20%.

This not only ensures that you get the best product for your machine, but also that your machine can continue to run undisturbed with the best care.

If you would like to know more about our lab activities and its analyses, please contact your representative.





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