

*moving things forward*

**PREMIUM LUBRICANT OIL**

**STEEL INDUSTRY**

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## **INTRODUCTION**

We provide a complete range of high quality marine lubricants that are designed to protect and enhance the efficiency of engines and equipment. All of our products are backed by our industry-leading technical support services and used oil testing services that enable optimal maritime operation.

Johnson Marine delivers the latest technology and state of oil Marine Grade Range. It covers main and minor grades of proven quality.

## **QUALITY ASSURANCE**

Our Engines oils have excellent deposits and wear control and meets the demand of latest and highly rated engines designs as well as all other applications.

Our Two-Stroke engine oils range consist of system oil and known for low sulphur application

Our Four-Stroke engine oil offers different level of alkalinely-reserve and covers highly loaded engines at low lube oil consumption from distillate to heavy fuel operations.

We offer very high quality product range for ancillary machinery application a cooperation with one leading marine additive manufacturing, that is covering Hydraulic / Gear / Compressor / Turbine / Refrigeration / Grease, exclusive from Johnson.

## **SECTOR CHALLENGES**

At JOHNSON we have developed a wide range of lubricants that cover all the lubrication needs in the marine world, both for engines and the rest of machinery on board.

We provide our clients with marine oils for 2-stroke and 4-stroke technology propulsion engines, as well as all the other lubricants and greases used in the vessel's diverse machinery.

We also supply biodegradable oils (EALs) for equipment that may pollute its environment, as well as for vessels sailing in waters where international VGP standards must be complied with. You'll find them differentiated as follows:



# ***COMPRESSOR APPLICATIONS***



# COMPRESSOR

## COMP WF

**COMP WF** is an ultra-high performance essentially wax-free refrigeration compressor lubricant designed for the lubrication of refrigeration and air conditioning compressors where refrigerants other than hydro fluorocarbons (HFCs) are used. Extremely low pour point and Freon Floc point helps ensure essentially wax-free and efficient evaporator, line and control operation. Ultra high performance lubricity and low temperature fluidity promotes system wear protection, efficiency and optimum uptime.

**ISO: 32/46/68/100/150/220/320/460**

### Meets & Exceeds:

- British Standard BS 2626:1992, Type A Lubricants
- APV - Baker (ISO VG 68)
- Bitzer Kuhlmaschinenbau
- Bock
- Gram
- Grasso
- Linde
- Mycom
- Sabroe
- ABB Stal Refrigeration AB
- Sullair
- York

## COMP DE

**COMP DE** is an ultra-high performance synthetic air compressor lubricant, designed for use under severe, high temperature operating conditions. COMP DE contains an advanced di-ester base fluid formulation in combination with robust oxidation and corrosion inhibitor technologies, designed to promote system. General industrial applications where non-EP synthetic products with good oxidation resistance properties are required, including hydraulic systems, oil mist lubrication systems, industrial gear cases.

**ISO :32/46/68/100**

### Meets & Exceeds:

- Matsubara
- Tanabe Pneumatic Machinery: H-series reciprocating marine compressors.

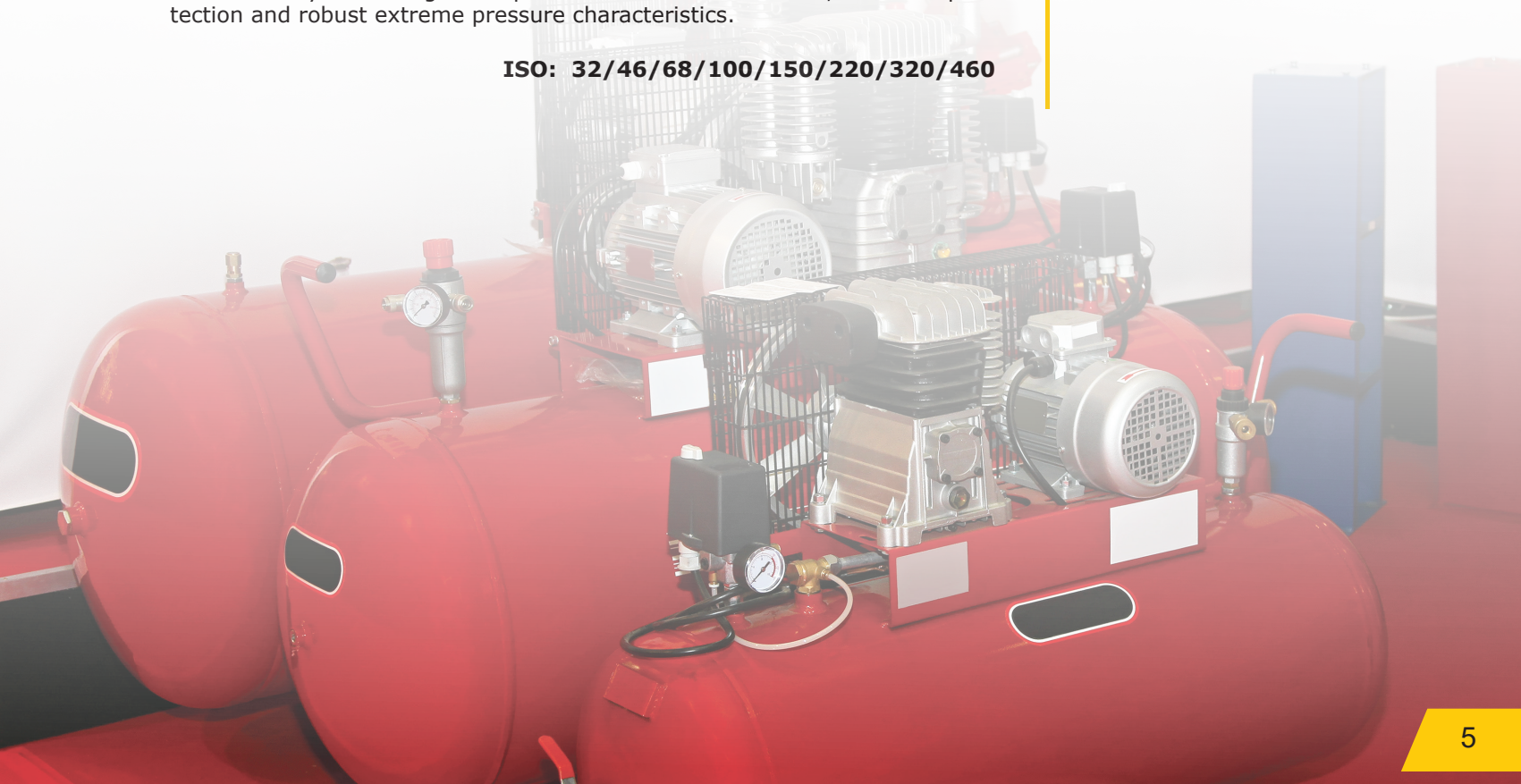
## COMP EP

**COMP EP** are a range of high performance compressor lubricants. These lubricants are formulated with high quality paraffinic base oils combined with an additive system designed to promote oxidation resistance, corrosion protection and robust extreme pressure characteristics.

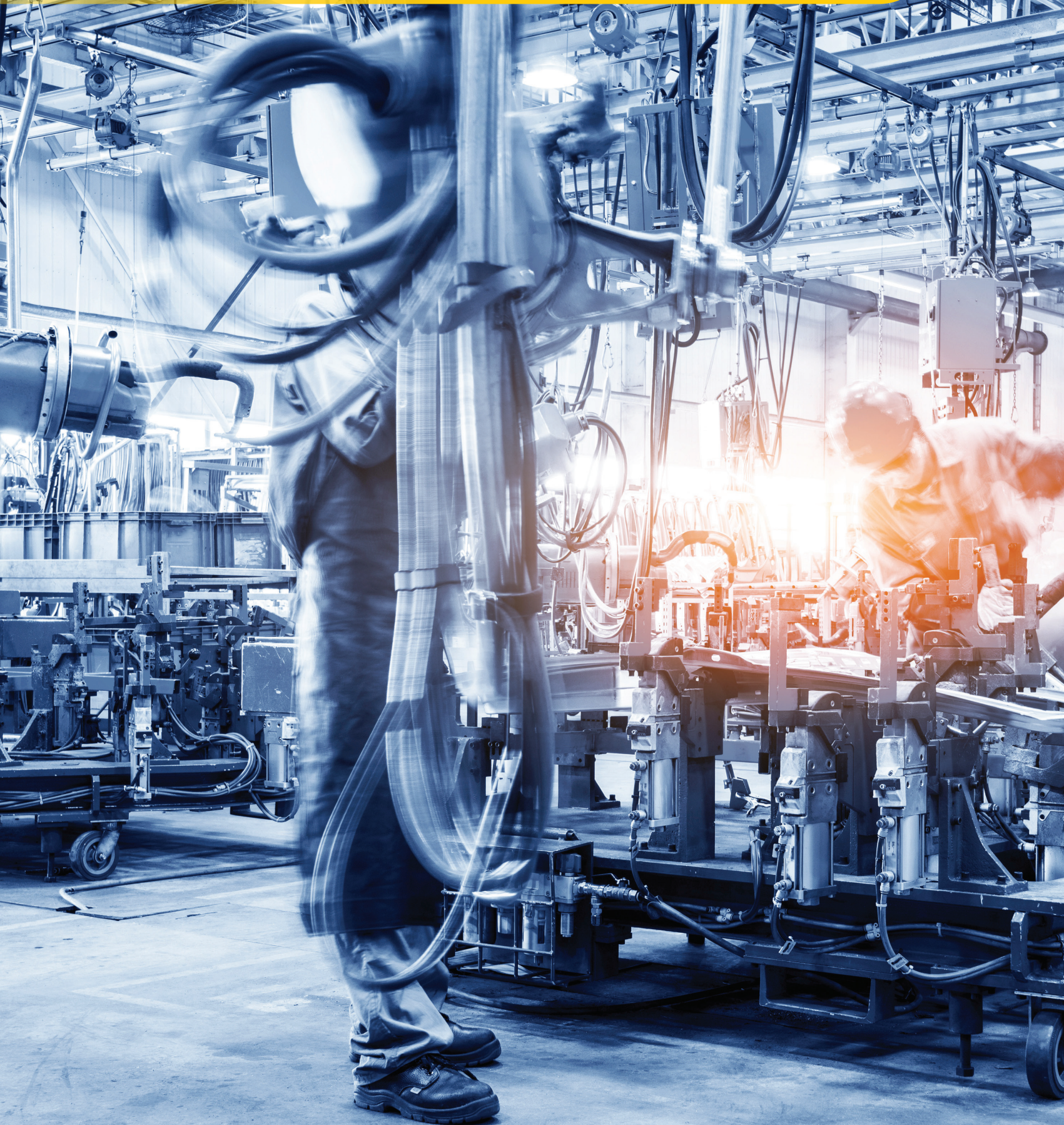
**ISO: 32/46/68/100/150/220/320/460**

### Meets & Exceeds:

- DIN 51506 VDL



# ***HYDRAULIC APPLICATION***



# HYDRAULIC OIL

## HYDRO SYN

**HYDRO SYN OILS** are a range of ultra-high performance hydraulic fluids, designed with synthetic base stocks and an ash less, zinc-free additive system. Clarity Synthetic Hydraulic Oils AW promotes high temperature oxidation resistance, rapid water separation, wear, and rust and corrosion protection.

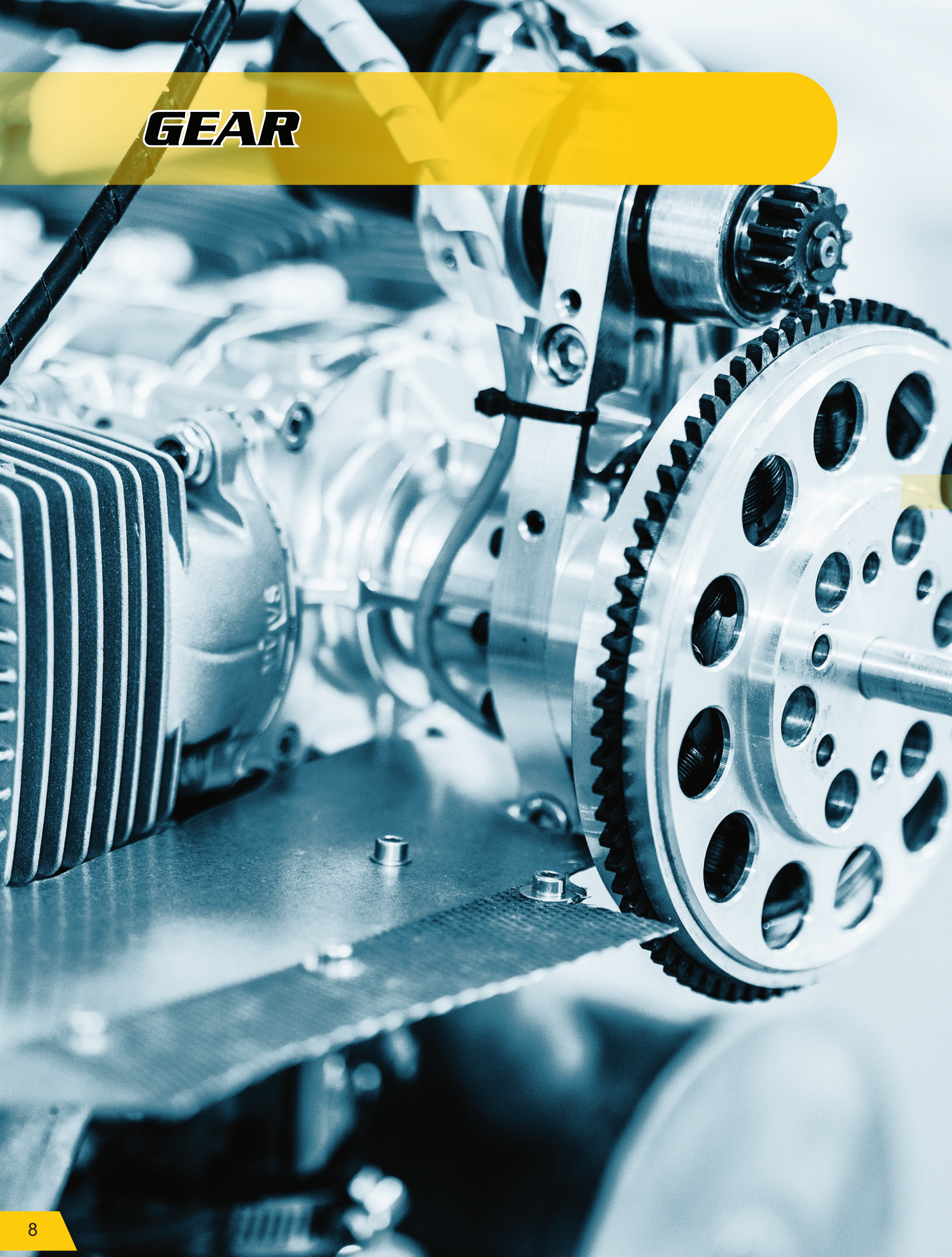
**ISO: 32/46/68/100/150/220/320**

### Meets & Exceeds:

- DIN 51524-3 (HVL, 2006, pt. 3)
- ISO 11158 L-HV
- Vestas 0000-2843
- ASTM D6158, HV<sup>o</sup>
- Eaton Vickers 35VQ25A, M-2950-S, I-286 S
- Cincinnati Machine P70
- Cincinnati Machine P69
- Cincinnati Machine P68
- Frank Mohn, Framo hydraulic cargo pumping
- Bosch-Rexroth RD/RE 90220-01 Arburg
- Krauss-Maffei Kunststofftechnik



***GEAR***





# GEAR OIL

## **Gear Guard 5000 (MINERAL)**

**5000 Series** 5000 Series lubricants are exceptional performance gear and bearing oils designed to provide outstanding service in terms of equipment protection, oil life and problem-free operation helping to enable increased customer productivity. These scientifically engineered oils are formulated using the latest proprietary and advance technology to provide outstanding and balanced performance in demanding applications at high and low temperatures. Gear 5000 products feature excellent low temperature properties, as well as improved air release performance in the lower viscosity grades. These products are resistant to mechanical shear, even in heavily loaded gear and high shear bearing applications, so that there is virtually no loss of viscosity.

**NLGI Grade: 1-2**

## **Gear Guard 10000 (SYNTHETIC)**

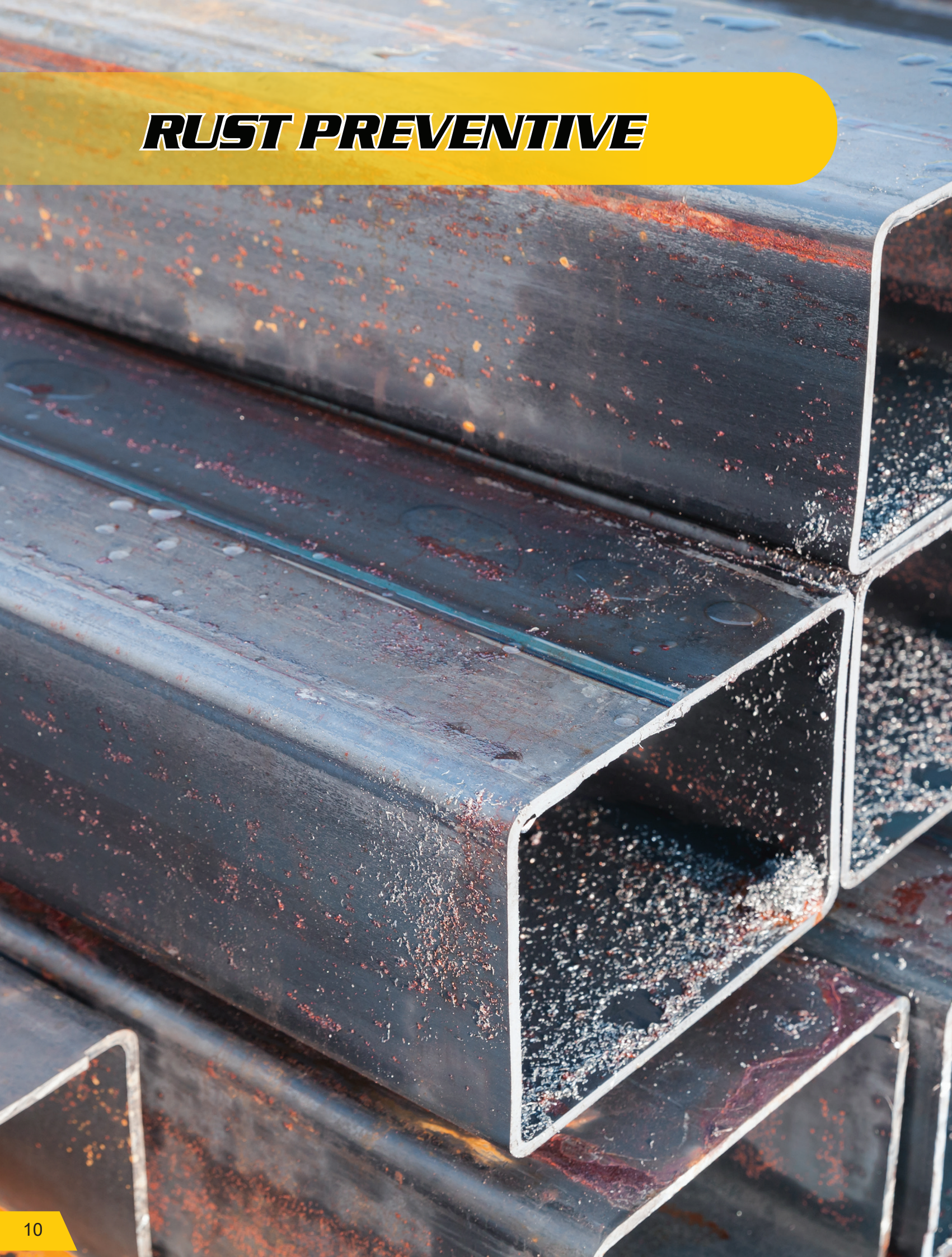
**GEAR SERIES** is a line of exceptional performance, synthetic industrial gear oils designed to provide outstanding protection of gears and bearings, extended oil life even under extreme conditions, helping to enable problem-free operation of equipment and increased customer productivity. These scientifically engineered synthetic lubricants are formulated from synthetic base fluids that have exceptional oxidation and thermal properties and excellent low temperature fluidity. The high viscosity index of these oils deliver less change in viscosity with changes in temperature, enabling wider operating temperature range and improved low temperature startup. Gear Guard 10000 Series lubricants contain an advanced proprietary additive system designed to provide excellent protection against conventional wear modes such as scuffing as well as a high level of resistance against micropitting fatigue. In addition, compared to conventional gear oil chemistries, it offers the potential for improved lubrication of gearbox rolling element bearings. Gear Guard 10000 Series products offer outstanding rust and corrosion protection relative to conventional gear oils, even in the presence of seawater contamination. They show no tendency to plug fine filters even when wet and have excellent compatibility with ferrous and non-ferrous metals even at elevated temperatures. Gear Guard 10000 Series also exhibit outstanding compatibility with elastomers in static seal tests. They have outstanding EP properties that provide protection even under shock load conditions. The synthetic base stocks used in Mobil SHC Gear Series oils have inherently low traction properties that result in low fluid friction in the load zone of non-conforming surfaces such as gears and rolling element bearings. Reduced fluid friction produces lower operating temperatures and can help improve gear efficiency.

**ISO 32, ISO 46, ISO 68, ISO 100, ISO 150,  
ISO 220, ISO 320, ISO 460, ISO 680, ISO 1000**

### **Meets & Exceeds:**

- ISO 6743-9: L-XBEHB 0
- DIN 51502: KPF0 P- 20
- CAT
- Liebherr
- JCB
- Epiroc
- Komatsu
- Sandvik
- Volvo Atlas Copco
- Hitachi Bucyrus
- P&H

# ***RUST PREVENTIVE***



# **RUST**

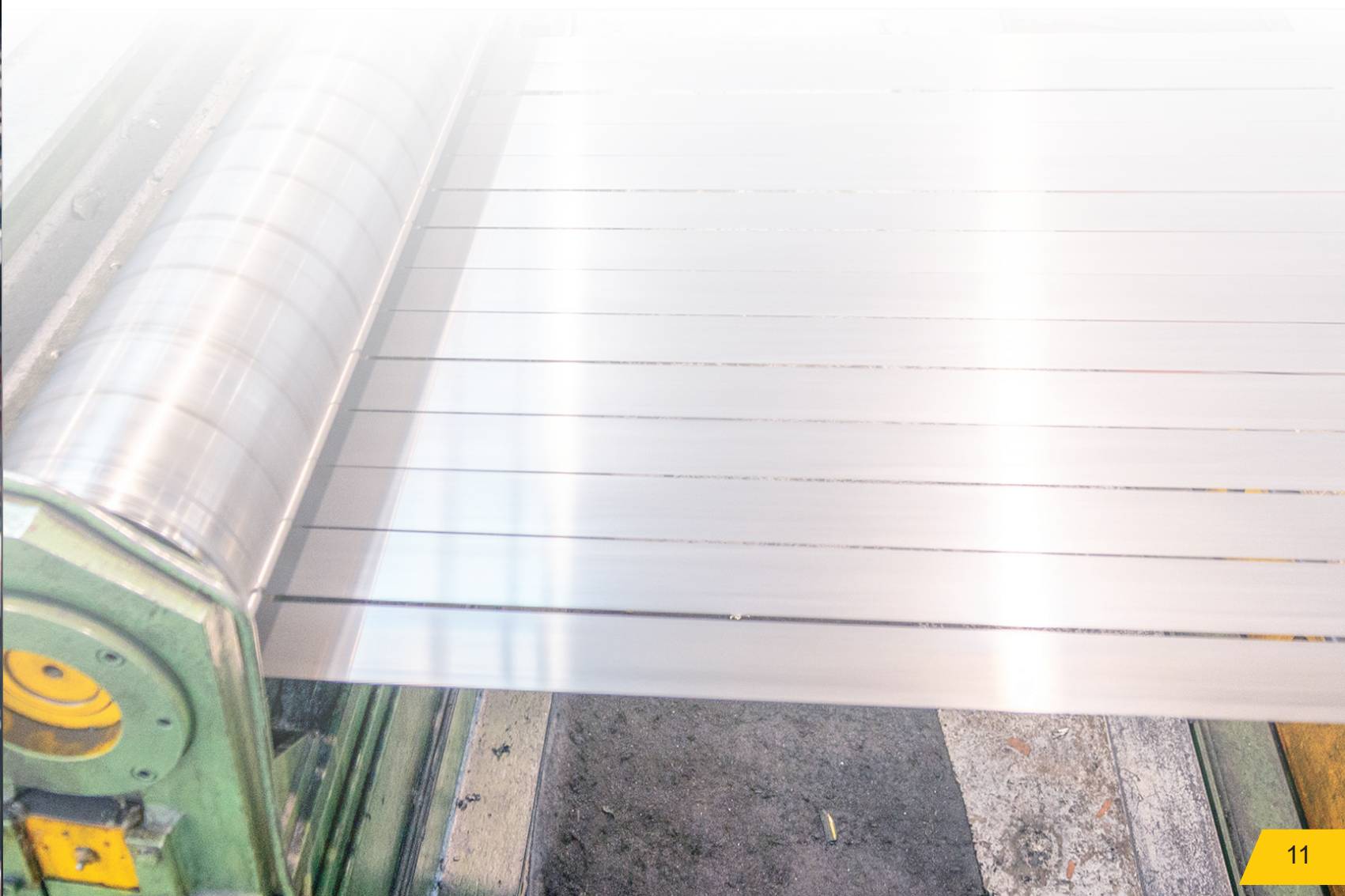
## **RUSPER**

**RUSPER** contains three premium performance rust preventives that cover a range of applications including storage and inter-operational activities. RUSPER intended for protection cold-rolled sheet and coiled steel in the metal industry. RUSPER is intended for the lubrication and rust protection of wire rope in industrial, construction, mining and marine applications. The RUSPER products exhibit excellent water displacing properties and form thin tenacious films that protect surfaces even under severe conditions that include high moisture levels and exposure to acid or corrosive fumes.

The RUSPER forms wet, oily and extremely thin barrier films that are not tacky so that it will not attract dirt or other foreign matter. It will protect sheet and coiled steel for up to twelve months, even under severe conditions that include variations in humidity and exposure to acid fumes that might be found in the vicinity of pickling operations.

RUSPER forms a grease-like film that protects wire ropes from corrosion tendencies of salt spray and moisture-laden atmospheres. It is effective throughout the extremes of temperature that may be encountered at sea and gives good protection against mild acids. It is pliable at  $-35^{\circ}\text{C}$  and will not drip at  $60^{\circ}\text{C}$ . It resists throw-off in high-speed service and adheres without being tacky or stringy. The film is self-healing and does not chip.

**NLGI Grade: 1-2**



# **GREASE**

## **GREASE**

### **GREASE HT**

**GREASE HT** Series greases are superior performance products designed for a wide variety of applications at extremes of temperature. They combine the unique features of synthetic base fluids with those of a high quality lithium complex thickener. The wax-free nature of synthetic fluids and the low coefficient of traction (compared with mineral oils), provide excellent low temperature pumpability and very low starting and running torque. These products offer the potential for energy savings and can reduce operating temperatures in the load zone of spherical roller and ball bearings. The lithium complex thickener contributes excellent adhesion, structural stability and resistance to water. The greases have a high level of chemical stability and are formulated with special additive combinations to provide excellent protection against wear, rust and corrosion, and providing operating viscosity at high and low temperatures. GREASE HT Series greases are available in seven grades, varying in base oil viscosity from ISO VG 100 to 1500 and in NLGI grade from 3 to 00.

**NLGI 00, NLGI 2, NLGI 3**



# PACKAGING

<b>COMPRESSOR LUBRICANT</b>						
<b>PRODUCTS</b>	<b>BULK</b>	<b>IBC 1000L</b>	<b>Drum 208L</b>	<b>Container 20L</b>	<b>Container 4L</b>	<b>Container 1L</b>
<b>COMP WF</b>			●	●		
<b>COMP DE</b>			●	●		
<b>COMP EP</b>			●	●		

<b>HYDRAULIC OIL</b>						
<b>HYDRO SYN</b>			●	●		

<b>GEAR OIL</b>						
<b>GEAR GUARD 5000</b>			●	●		
<b>GEAR GUARD 10000</b>			●	●		

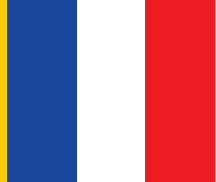
  

<b>RUST PREVENTIVE</b>						
<b>RUSPER</b>				●	●	●

<b>GREASE</b>						
<b>PRODUCTS</b>	<b>DRUM 180 KG</b>	<b>BUCKET 180 KG</b>	<b>BUCKET 5 KG</b>	<b>BUCKET 1 KG</b>	<b>BUCKET 500 KG</b>	<b>BUCKET 250 KG</b>
<b>GREASE HT</b>	●	●	●	●	●	●

The characteristics above represent typical values and cannot be considered as product specifications.



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