

**Highlights**

- Readily biodegradable
- Good mobility in CLS
- Very good corrosion protection

**Xtreme Marine Heavy Duty BIO Grease** is an anhydrous calcium thickened lubricating grease based on biodegradable esters. The grease contains antioxidants, corrosion inhibitors and EP/AW additives.

The thickener, together with the biodegradable esters, make the product suitable for lubrication of heavily loaded bearings and in wet and corrosive environments, even at low temperatures. The lubricating grease has excellent adhesion and water resistance.

**Xtreme Marine Heavy Duty BIO Grease** is a modern high performance EAL grease for diversified use. The product is suitable for marine on-deck applications and serve as an universal grease for forestry, agricultural and construction vehicles. The grease is easily pumpable in most modern centralised lubrication systems.

**Xtreme Marine Heavy Duty BIO Grease** is pending approval in 2013 VGP legislation and the Swedish Standard 155470.



corrosion protection



EAL



extreme pressure



high loads



central lubrication

ISO 12924: L-XD(F)BIB0

DIN 51502: KPE0G-40

Thickener		Anhydrous Calcium
Base fluid		Ester
Texture		Smooth
Colour	Visual	Yellow
NLGI Grade	ASTM D 217	0
Dropping point	IP 396	> 140°C
Base oil viscosity at 40°C	ASTM D 7152	460 mm <sup>2</sup> /s
Base oil viscosity at 100°C	ASTM D 7152	50 mm <sup>2</sup> /s
Penetration 60 strokes	ISO 2137	355 - 385
4-ball weld load	DIN 51350:4	3600 N
Water resistance at 90°C	DIN 51807:1	0
Water wash out at 38°C	ISO 11009	< 10 %
Emcor salt water	ISO 11007	≤ 2 - 2
Flow Pressure at -40°C	DIN 51805 mod	< 1400 mbar
Readily biodegradable content	EEL calculation	82 %
Renewable carbon content	EEL calculation	86 %
Density	IP 530	930 kg/m <sup>3</sup>
Temperature range		-40°C to +100°C (Max +110°C)

The information above is based on current production data and can vary within given tolerances. Temperature range is given as a guideline only. Information and data can be changed without previous notification. This information replaces prior editions.

#### Maritime

- Offshore Oil & Gas
- Offshore Wind
- Offshore Contracting
- Dredging

#### Mining

#### Heavy Industry

#### Food Industry

## About TrustLube<sup>®</sup>

TrustLube<sup>®</sup> designs, manufactures, assembles and installs automatic lubrication systems and monitoring systems for the Maritime Industry, Mining, Heavy Industry and Food Industry.

Our skill lies in the exact dosage required for the installation to achieve a sound performance. The method of TrustLube<sup>®</sup> ensures the continuity of the industrial process and enables installations to achieve significant lubricant savings. Our sustainable TrustLube<sup>®</sup> systems continually prove themselves in the most extreme conditions. Anywhere in the world.

#### Automatic Lubrication System

The TrustLube<sup>®</sup> dual line system is, due to the simplicity and reliability, the preferred choice for heavy-duty applications. With the TrustLube<sup>®</sup> system one metering device per grease point is used. All metering devices are working independent of each other regardless temperature, tube length and viscosity of the lubricant. TrustLube<sup>®</sup> two line systems provide reliable lubrication for large extended installations and deliver an exact quantity of grease per cycle to provide optimal lubrication to each greasing point.

Per greasing point the grease quantity can be exactly adjusted, by mounting the exact metering device available in a large range of different quantities from 0.1 cc to 7.5cc, delivering each cycle an exact quantity at the right place.

The quantity of grease is independent from outside temperature and pump running time. The system is completely hermetically sealed. No dirt, seawater or sand can enter the system. The complete system is constructed in stainless steel. Each distribution metering unit has a non-return check valve that prevents grease returning in the line.

A TrustLube<sup>®</sup> system and the metering devices are in such way developed that segregation of grease cannot occur. Each metering device can be electronically monitored to detect a possible blocking greasing point in an early stage. Special Stainless steel distribution manifolds are designed by TrustLube<sup>®</sup> to ensure easy fitting with the main lines which also makes future extensions, when necessary, very easy.

TrustLube B.V. is  
ISO 9001, ISO 14001,  
OHSAS 18001 and SCC  
Petrochemical certified.



It underlines our  
commitment to deliver  
high quality products  
and an excellent level  
of service.