

# **BIOHYDRAN TMP** 32, 46, 68 & 100



#### **Description**

Synthetic biodegradable hydraulic oil for hydraulic circuits.

#### **Applications**

- + BIOHYDRAN TMP is a range of high quality synthetic biodegradable hydraulic oils.
- + Suitable for any hydraulic system operating in severe conditions that requires a fluid with good wear control, a high viscosity number and good long-term stability.
- + BIOHYDRAN TMP is particularly recommended when there is a danger of contaminating water, forests or special environments: offshore operations, dredging, fishing and so on.

# Environmentally Acceptable Lubricants (EAL)

### **Specifications**

- + ISO 15380:HEES
- + European ECOLABEL, registration no. FR/27/02
- + Environmentally Acceptable Lubricants (EAL) for 2013 Vessel General Permit (VGP)
- + Meets the requirements of the Swedish Standard SS155434
- + VDMA 24568: HEES

#### **Features and Benefits**

- + Outstanding viscosimetric performances and good low temperature behaviour offering a very wide range of operating temperatures.
- + Good protection against rust and corrosion.
- + Miscible with most mineral and biodegradable fluids.
- + Outstanding anti-wear and anti-corrosion properties which protects the moving parts.
- + Improved thermal and oxidation stability giving an increased service life of the fluid.
- + Compatible with the elastomers normally used in hydraulic circuits: VITON, PERBUNAN, NITRILE NBR, NEOPRENE, SILICONE...

## **Typical Characteristics**

	Methods	Units	32	46	68	100
ISO Grade		_	32	46	68	100
Density at 15°C	ISO 3675	kg/m³	911	920	930	930
Kinematic viscosity at 40°C	ISO 3104	mm²/s	32	46	68	100
Kinematic viscosity at 100°C	ISO 3104	mm²/s	7.5	9.5	12.7	18.1
Viscosity Index	ISO 2909	_	195	183	180	202
Flash Point (COC)	ASTM D 92	°C	> 260	> 280	> 300	> 300
Pour Point	ISO 3016	°C	- 39	- 39	- 42	- 42
Biodegradability	OECD 301 B	%	> 60	> 60	> 60	> 60

Characteristics of this chart are indicative typical values.



#### Handling, Health & Safety

Lubricants consisting of synthetic oils with specific additives. In normal conditions of use, these lubricants present no particular toxic hazard. All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin. Prevent any risk of splashing, and keep away from combustible materials. Store under cover and away from any risk of contamination.

A safety data sheet complying with current legislation is available at: www.quickfds.com and www.totallubmarine.com