

# BIOHYDRAN TMP 100



Biodegradable Hydraulic Fluid.

## **APPLICATIONS**

Environmentally Acceptable Lubricant (EAL) as per the US 2013 Vessel General Permit (VGP).

Hydraulic systems.

## **FEATURES AND BENEFITS**

**BIOHYDRAN TMP** is a biodagradable synthetic hydraulic fluid offering good lubricating properties. **BIOHYDRAN TMP** is designed for use when incidental spillage in environmentally sensitive areas may occur.

**BIOHYDRAN TMP** range is recommended for demanding hydraulic systems requiring hydraulic fluids with re-enforced anti-wear properties.

SPECIFICATIONS AND APPROVALS				
•	<b>/</b>	ISO 15380: HEES	~	European ECO Label FR/27/002
•	<b>/</b>	US Vessel General Permit Compliant	~	Swedish Standard SS 15 54 34

TECHNICAL DATA : BIOHYDRAN TMP 100						
CHARACTERISTICS	METHODS	UNITS	TYPICAL VALUES*			
Appearance	Visual	_	Clear			
Density at 15°C	ISO 3675	kg/m³	927			
Kinematic viscosity at 40°C	ISO 3104	mm²/s	100			
Kinematic viscosity at 100°C	ISO 3104	mm²/s	15.7			
Viscosity index	ISO 2909	-	175			
Flash Point (OC)	ISO 2592	°C	300			
Pour Point	ISO 3016	°C	- 33			

<sup>\*</sup>The specifications above are for illustrative purposes and communicated for information only.



CUSTOMER BENEFITS				
~	Produced with renewable raw materials, <b>BIOHYDRAN TMP</b> contributes to CO <sub>2</sub> -emission reduction.			
~	High natural viscosity index gives <b>BIOHYDRAN TMP</b> a wide temperature operating window (-20°C to 80°C).			
•	The very high shear stability of <b>BIOHYDRAN TMP</b> will ensure the hydraulic equipment is kept to an optimum efficiency during the fluid service life.			
~	The good lubricating properties, as well as the very good wear and corrosion protection, will extend the life of the hydraulic system's moving components.			
~	As recommended in ISO 15380, please check with the equipment supplier to see whether the installation is suitable for the use of synthetic ester hydraulic fluids.			
•	Contact our technical service for advice changing from HM or HV fluids to Biodegradable HEES hydraulic fluids.			

## **GENERAL RECOMMENDATIONS**

#### **COMPATIBILITY**

Compatibility should be checked.

Please consult your Lubmarine Lubrication Engineer should you have any questions.

## **STORAGE**

This product should be stored under cover in clean, dry conditions and protected from frost.

Recommended storage temperature range is 5°C to 50°C.

Drums that are stored on deck should be raised on pallets and covered to protect from the elements.

Always check regularly for leakage.

#### **COMPLIMENTARY PRODUCTS AND SERVICES**

- ✓ DiagomarPlus Laboratory based used oil analysis program.
- ✓ Tech'Care Suite of onboard testing kits.
- **Technical Expertise & Support** − Total Lubmarine engineers are on hand at worldwide locations to assist with lubrication concerns.
- ✓ Lube-On-Ship Visualize your lube oils needs aboard Total Lubmarine's innovative virtual vessel.



EU Ecolabel: FR/27/00

Total Lubmarine / 00-04-2021 / BIOHYDRAN TMP 100

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in can be obtained via your Total Lubrarine technical advisor or from sdstotalms.total.com





