



# OPUS LUBRICANTS PRODUCT DATA

## SYNOPSIS BIO HYDRAULIC OILS

### Description

A blend of fully synthetic 100% biodegradable series of Hydraulic range of oils are particularly suited for most hydraulic systems designed to increase service life. These products are formulated with high quality base stocks in order to provide performance greatly superior to conventional petroleum oils. These Hydraulic fluids provide significantly improved load carrying ability, excellent wear and rust protection, high viscosity index, high flash point, low pour point, outstanding oxidative stability and cleaner systems.

ISO 6743-4 classification of biodegradable hydraulic liquids: ISO – L – HEES – Synthetic esters  
Compliant with Swedish Standard SS15 54 34, Din 51524-2 and ISO 15380

### Application

Bio Hydraulic oils are suitable for hydraulic systems designed to operate in applications where ISO 32, 46, 68, 100 oil viscosity grades are used.

Follow manufacturer's instructions.

Compatibility with mineral oils is recommended before use, therefore it is important to purge the system of the previous oil prior to recharging with Bio Hydraulic oils.

### Benefits

- Excellent oxidation and thermal stability
- High operating temperature range
- Lower maintenance cost
- Improves cleanliness
- Extended lubricant life
- Compatibility with most paints, gaskets, and seals

### Performance Profile

Meets the performance requirements of:  
Denison HF-0, HF-1, HF-2  
Vickers M-2590-S, I-286-S

Cincinnati Machine P-68, P-69, P-70  
U.S. Steel 127, 136  
Din 51524, part 2 and 3

### Typical Properties

ISO	<u>32</u>	<u>46</u>	<u>68</u>	<u>100</u>
Specific Gravity @ 15.0°C:	0.95	0.95	0.95	0.95
Kinematic Viscosity @ 40°C (cSt):	32	46	68	100
Kinematic Viscosity @ 100°C (cSt):	7.3	9.5	12.5	15.6
Pour Point °C:	-30	-40	-40	-35



### **Typical Properties ctd.**

Flash Point, COC °C min:	>250	250	250	250
Viscosity Index:	205	197	184	165
Rust ASTM D 665A	pass	pass	pass	pass
Modified Stum, OECD 301B.	<-----Readily Biodegradable----->			
Biodegradability % (CEC L-33-A-93).	95%	95%	95%	95%

### **Health & Safety**

This product has been manufactured to the highest standards and when used for the purpose recommended is unlikely to present any significant health hazards. A Safety Data Sheet is available on request.

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