



**LUBRI-LAB**  
INC

## TECHNICAL DATA

# **BIOTOPE-HYDRAU™**

## **Synthetic Fluid for hydraulic system**

### **Description**

Biotope-Hydrau is a bio-based fully synthetic hydraulic fluid specially designed for sensitive applications. Biotope-Hydrau offers an excellent protection against wear. This essential element maintains the pump efficiency. Biotope-Hydrau is compatible with the conventional seals, resists corrosion and easily separates itself from water and debris in the separator/filter before returning again in the system.

Biotope-Hydrau has better resistance than conventional oil under extreme temperature, oxidation and stays cleaner through all the operations.

According to the test of stability of oil with turbine, ASTM D 943 shows that after 2000 hours there is no change in the TAN (Total Acid Number) and thus offers an increased resistance to oxidation.

Biotope-Hydrau meets or exceeds the requirements of:

- . Din 51524 Parts 1 and 2
- . US Steel 127.136
- . Din 51506, VDL Performance also for lower grades
- . Dinson HF-0

### **Advantages**

- Resists against corrosion and oxidation
- Excellent anti-wear properties
- Avoids the oil loss due to sliding
- Compatible with the seals
- Separates itself easily from water and debris
- Keeps the system cleaner
- Resists compression while maintaining its fluidity

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The above information is true and precise to the best of our knowledge. All recommendations or suggestions are made without warranty since the circumstances and conditions are beyond our control.

For further information contact : **Lubri-Lab Inc.:** [info@lubrilab.com](mailto:info@lubrilab.com)

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### **BIOTOPE-HYDRAU™** **Synthetic Fluid for hydraulic system**

- Resists a wide range of temperature
- Keeps its properties even under extreme condition of oxidation
- Biodegradability test : CEC-L-33-A-94

### **Applications**

Recommended for systems using screw type, reciprocating and vane pump stationary and mobile hydraulic systems.

Consult your OEM for the appropriate grade.

### **Specification**

<b>Properties</b>	<b>ISO VG 15</b>	<b>ISO VG 32</b>	<b>ISO VG 46</b>	<b>ISO VG 68</b>
Kinematic Viscosity @ 100°C, cSt	3.4	5.8	8.1	11.3
Kinematic Viscosity @ 40°C, cSt	13.9	30.6	44.8	64.99
Viscosity Indexes	121	133	156	168
Density	0.832	0.844	0.846	0.848
Flash Point, °C (°F)	170 (338)	208 (406)	180 (356)	214 (417)
Fire Point, °C (°F)	192 (378)	280 (536)	275 (528)	276 (529)
Pour Point, °C (°F)	-57 (-71)	-48 (-54)	-48 (-54)	-45 (-49)
Demulsibility 82.2°C (180°F) ASTM D1401 Oil/Water/Cuff (minutes)	40/40/0(3)	40/40/0 (3)	40/40/0/ (5)	40/40/0 (6)

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**Performances:**

Test	Method	USS 224	Results
Precipitation No.	D91	Trace	Nil
Oxydation % Precipitation	USS S-200	0.1 max	Trace
Copper corrosion	D130	1B max	1A
Steel corrosion Part A Part B	D665	Pass Pass	Pass Pass

**BIODEGRADABILITY TESTS**

	VG 15	VG 32	VG 46	VG 68	VG 100
OECD 301F(28 days) % Biodegradation	77	82	81	78	76

CEC-L-33-A-94 >90%

OECD: Office of Economic Cooperation and Development.  
CEC: Coordinating European Council

**Availability :** 20 litres, 55 litres, 205 litres.

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