



LUBRI-LAB
INC

TECHNICAL DATA

BIOTOPE-GEAR™

Biodegradable Synthetic Gear oil

Description

Biotope-Gear is a bio-based synthetic gear fluid specially formulated with a new saturated ester technology and premium additives. Biotope-Gear offers excellent thermal and oxidation stability and reduces operating temperatures to ensure superior service life with minimal gear, shaft, and bearing wear, all in a readily biodegradable, non-toxic, environmentally friendly formula.

Biotope-Gear meets or exceeds the requirements of:

- GM LS-2 Specification LR for EP gear oils
- U.S. Steel 224
- AGMA 9005

Advantages

- Biobased Formula
- Resists deposit formation
- Will not plug filters in presence of water
- Thermally stable – Minimal degradation. Long service life.
- High film strength - Exceptional EP performance protects against premature failure
- Advanced water separation - Excellent antifoam and demulsibility characteristics
- Rust and corrosion inhibited - Non-corrosive to yellow metals

Applications

- Highly loaded gearboxes under severe temperature ranges
- Offshore operations
- Construction equipment
- Forestry
- Plastic extruder gearboxes
- Snow removal

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
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Perform**ACE** 2001 Award Recipient



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USS 224 & AGMA 9005-D94 PERFORMANCE
In ISO VG 220 Biotope-Gear Oil

Tests	Method	REQUIREMENTS		
		USS 224	AGMA 9005 D94	Results
API Gravity, Degrees	D 287	25 min		34.1
Kinematic Viscosity @40°C, cSt @100°C, cSt	D 445	198-242 Report	198-242 Report	224 27.9
Viscosity Index	D 2270	95 min	120 min	162
Precipitation No.	D 91	Trace		Nil
Pour Point, °F	D 97	15 max (-9.4 °C)	-22 max (-5.6°C)	-52 (-46.6°C)
Flash Point, °F	D 92	450 min (232.2°C)		455 (237.8°C)
Copper Corrosion	D 130	1B max	1B max	1A
Foam Sequence 1 Sequence 11 Sequence 111	D892		75/10 75/10 75/10	0/0 70/0 20/0
Steel Corrosion	D 665	Pass		Pass
Oxidation Visc. Increase, % Precipitation No.,%	USS S-200	6.0 max 0.1 max	6.0 max 0.1 max	1.46 Trace
4-BALL EP Load Wear Index, kg Weld Point, kg	D 2783	45 min (99 lb) 250 min (551 lb)		53.8 (118.6 lb) 250 (551 lb)

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