



Product Bulletin

Gulf BioTribe Hydraulic *Readily biodegradable, anti-wear hydraulic fluid*

Gulf BioTribe Hydraulic Oil is a biodegradable, multi-viscosity hydraulic fluid that is formulated using naturally renewable fluid and zinc free ashless additives to provide outstanding protection for hydraulic and circulating systems operating under moderate conditions, especially those operating in environmentally sensitive areas.

This environmentally acceptable hydraulic fluid is based on natural fatty oil which has a special affinity to metal surfaces affording exceptional boundary lubrication. It has also been carefully formulated to provide excellent anti-wear and anti-corrosion properties. In addition to its exceptional performance capability, it satisfies the requirements for readily biodegradability and non-toxicity making it a desirable product where leakage or spillage of conventional oils could result in damage to the environment such as hydraulic equipment working in the agricultural, construction, mining, forestry and marine industries.

Features	Advantages and Potential Benefits
Biodegradability and non-toxicity	Reduces potential for environmental damage, 95% biodegradable within 30 days based on the CEC-L-33-T-82 test. Lowers potential remediation and clean-up costs caused by spills or leakage.
Exceptional load-carrying and anti-wear properties	Protects system components against wear. Provides long equipment life.
Outstanding corrosion protection	Reduces corrosion on internal system components
Multi-metal compatibility	Non-reactive with steel or copper alloys
Seal and elastomer compatibility	Works with same elastomers used with mineral based oils. No need for special seals or elastomers.

Typical Properties

Performance Profile		
Product Code	Test Method	334320
Viscosity cSt @ 40°C	ASTM D445	37
Viscosity cSt @ 100°C	ASTM D445	8.3
Viscosity Index	ASTM D2270	210
Color	ASTM D1500	L1.0
Water Separability, minutes to pass @ 130°F	ASTM D1401	40/40/0/30
Flash Point, COC, °F (°C)	ASTM D92	518°F (270°C)
FZG Gear Test Fail Stage	Din 51354	12
Pour Point °F (°C)	ASTM D97	-20 (-28)
Four Ball Wear, 40Kg	ASTM D4172	0.40
Biodegradability	CEC-L-33-T-82	95%

AVAILABILITY:

Gulf BioTribe Hydraulic Oil is available throughout Gulf's marketing area. Your Gulf representative can provide specific information. Need additional information? Please visit www.gulflubricants.net