



TEXAS REFINERY CORP OF CANADA

BIODEGRADABLE  
**EXTREME**  
HYDRAULIC OIL

*Designed specifically for Canada's environmental needs*

Texas Refinery Corp of Canada's Biodegradable Extreme Hydraulic Oil is a non-toxic, recyclable fluid formulated for applications that require an environmentally friendly solution without sacrificing performance. These multi-grade hydraulic fluids are designed for year-round use on both mobile and stationary systems, capable of performing in a wide temperature range. Extreme Hydraulic Oil begins with 99.9% pure, hydro treated mineral oil (not vegetable oil). The impurities are then removed to guarantee the cleanest product possible and a high performance additive package is carefully blended in. The result is a safe, long lasting hydraulic oil that will keep your equipment running at optimal efficiency.

## FEATURES

- Inherently biodegradable.
- Superior oxidation stability of 10,000+ hours (compared to conventional oils that test out  $\leq$  4,000 hours).
- Wide temperature range, fully functional in subfreezing temperatures (-48°C).
- Recyclable.
- Non-toxic.
- Advanced water separability & resistance to foaming.
- Metal Free, will not contaminate ground water and waste water streams with transition metals.

## BENEFITS

- Greater than 50% biodegradability within a 28 day period according to OECD 301B.
- Extended drain intervals and reduced deposits which help ensure stable operation of hydraulic valves and actuators.
- Does not gel over time at relatively low temperatures.
- Extreme Hydraulic Oil can be recycled and reclaimed (compared to vegetable oil based products that have to be incinerated)
- Extreme Hydraulic Oil is not acutely toxic to fish, daphnia or algae according to the UN Globally Harmonized System criteria

Available Sizes:

1,040L Tote / 208L Drum / 22L Pail

# ***SPECIFICATIONS***

ISO Grade	Test Method	32	46
Density @ 15°C, kg/l	D4052	0.846	0.853
Pour Point , °C / °F	D5950	-48/-54	-48/-54
Flash Point, COC, °C / °F	D92	239 / 462	247 / 477
Kinematic Viscosity,	D445		
cSt @ 40°C		33.8	45.0
cSt @ 100°C		6.7	8.2
SUS @ 100°F		172	229
SUS @ 210°C		48	53
Viscosity Index	D2270	160	158
Rust Prevention, Procedures A&B, 24h	D665	Pass	Pass
Copper Corrosion 3Hr @ 100°C / 212°F	D130	1b	1b
Air Release @ 50°C / 122°F, Minutes	D3427	2.0	2.0
Vickers 35VQ25 Vane Pump Test	D6973	Pass	Pass
Denison Hybrid Pump Test, T6H20C	TP-30533	Pass	Pass
Water Separability @ 54°C / 129°F	D1401	40-40-0	40-40-0
Oil-water-emulsion (minutes)		15	20
Oxidation Stability, Hours to 2.0 AN	D943	10,000+	10,000+
Dielectric Breakdown Voltage, kV	D877	52	52
Biodegradability, %	CEC L-103-12	>60	>60
	OECD 301B	>50	>50
Aquatic Acute Toxicity ***			
EC50 (Algae), ppm (mg/L)	OECD 201	>9,000	>9,000
EC50 (Daphnia), ppm (mg/L)	OECD 202	>10,000	>10,000
LC50 (Trout), ppm (mg/L)	OECD 203	>1,000	>1,000

TRC Biodegradable Extreme Hydraulic Oil is approved for use by the following OEM and against the following specification: Arburg (ISO 46) / Denison HF-O. In addition, Biodegradable Extreme Hydraulic Oil is recommended for use in equipment manufactured by: Parker Hannifin (Denison), Eaton (Vickers), Sauer-Danfoss, Racine, Oilgear, Hydreco, Dynex and others. Biodegradable Extreme Hydraulic Oils are suitable for use in Bosch-Rexroth equipment and when a DIN 51524 Part 3 HVLP or ISO 6743/4 Type HV fluid (ISO 11158) is recommended. Biodegradable Extreme Hydraulic Oils meet the WGK (German Water Hazard Classification) of 1. Biodegradable Extreme Hydraulic Oils are also NSF H2 listed (no allowable food contact)

\*\*\* According to GHS, a substance is "not environmentally toxic" if LC50 and EC50 values for OECD 201, 202 and 203 are >100 mg/L.



CANADA

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