PRODUCT INFORMATION

TECHNICALLY ENGINEERED LUBRICANTS

TEL Biodegradable Anti-Wear Hydraulic Oils
Non-Toxic, Environmentally Friendly

Product Description

Biodegradable Anti-Wear Hydraulic Oils are fully formulated, thermally stable, non-zinc containing antiwear hydraulic oil for use in both high and low pressure hydraulic systems for industrial and mobile applications. It contains a unique combination of phosphorus, sulfur, antiwear and friction modifying chemical components as well as a combination of metal passivator, demulsifiers, rust inhibitor and defoamer for longer fluid life.

Our Biodegradable Antiwear Hydraulic Oil is a **Vegetable based**. It is designed to minimize environmental impact and have low environmental persistence. The fluid is totally biodegradable and exceeds the government criteria of being "**readily**" biodegradable. It has a natural ability to biodegrade quickly and completely. Once the Fluid is leaked into the ground, it has ability of substance to be digested or consumed by naturally occurring microorganism present in water, air and soil system. Complete biodegradability is the conversion of a substance to carbon dioxide and water. Developed as an **alternative to mineral based hydraulic fluids.**

Advantages & Uses

• **BIODEGRADABLE ANTIWEAR HYDRAULIC OILS** are fully formulated ashless antiwear hydraulic fluid that has produced excellent biodegradation characteristics.

Features	Performance Requirements
• Superior hydrolytic stability	• Vickers I-286-S, M-2950-S
• Excellent EP & Rust performance	• Cincinnati Milacron P-68, P-69, P-70
• Outstanding oxidative stability	• DIN 51524 Part 2
• Good demulsibility and anti-foam properties	• Racine, Variable Volume Vane Pumps
• Good low temperature & A/W properties	• AFNOR NFE 48-603HM
• **Biodegradable via CEC/Sturm test methods**	• Lee-Norse 100-1
	• Jeffrey No. 87
	• Ford M-6C32
	• B.F. Goodrich 0152
	• General Motors LH-04-1, LH-06-1, LH-15-1

Test	46
API Gravity	21.60
ASTM Color	2.0
Viscosity cSt @ 40℃.	46.0
Viscosity @ -25℃., Brookfield	3000 cPs
Pour Point, ℃.	-14
4-Ball Wear:	
1 hr, 167℉, 1200rpm, 40kg	0.30/0.30
1 hr, 130℉, 1800rpm, 20kg	0.30/0.30
1 hr, 130℉, 1800rpm 40kg	0.30/0.33
Biodegradability CEC/Sturm	100%
Demulsibility:	40-40-0 (10)
Flash, PMCC, ℃.	>250
Ecotoxicity Data	
Fathead minnow	96hr. LC-50 = >10,000 ppm
Daphnia magna	48hr. EC-50 = >10,000 ppm WAF

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY