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# EnviroLogic® 3000 Series HEPR

## High Performance Biodegradable Hydraulic Fluid

### Description

EnviroLogic® 3000 Series Hydraulic Fluids are high performance, readily biodegradable, non-hazardous hydraulic fluid. Are intended for severe service, extreme high temperature (350° F), low temperature (-40° F) and high pressure applications. Formulated from biodegradable non-toxic base stocks that afford exceptional oxidation and thermal properties, EnviroLogic® is ideal for mobile hydraulic systems operating in environmentally sensitive areas. It exhibits enhanced wear protection, cleanliness and longer life than conventional petroleum hydraulic oils. EnviroLogic® can directly replace petroleum oil based hydraulic fluids - yet has reduced environmental impact in the event of a leak or spill.

Meets the requirements of DIN 51524 HVLP, ISO 15380 HEPR and VDMA 24568.

Typical Properties				
	EnviroLogic 3032	EnviroLogic 3046	EnviroLogic 3068	EnviroLogic 3100
ISO Viscosity Grade	32	46	68	100
Viscosity, centistokes				
@ 100° C	7.2	10.0	13.5	18.5
@ 40° C	33.0	48.0	68.0	100.0
Viscosity Index	190	185	176	174
Brookfield Viscosity@-30C, cps	1750	2900	5100	7500
Pour Point, °C	-54	-51	-48	-48
Flash Point, °F	405	430	420	420
Specific Gravity, 15.6C (60F)	0.851	0.86	0.856	0.860
Density, lb/gal, 15.6C (60F)	7.09	7.11	7.13	7.16
API Gravity, 15.6C (60F)	34.8	34.2	33.8	33.0
Performance Properties				
Rust, D-665B	Pass	Pass	Pass	Pass
FZG, D5182, Pass Stage	12	12	12	12
Oxidation Stability, D-943, dry Hrs to TAN>2	>2000	>2000	>2000	>2000
Demulsibility, D-1401	40/40/0	40/40/0	40/40/0	40/40/0
Copper Corrosion, D-130	1A	1A	1A	1A
Foam, D-892 (Seq. I,II,III)	0/0/0	0/0/0	0/0/0	0/0/0
Vickers 35VQ25 Vane Pump Test	Pass	Pass	Pass	Pass
Seal Compatibility (Buna-N, Viton, polyurethane)	Pass	Pass	Pass	Pass
Turf Response to Spill	Grow back	Grow back	Grow back	Grow back
Biodegradability, D 5864, %	>60	>60	>60	>60
Aquatic Toxicity:				
Trout, LC50, ppm, OECD 201	>5,000	>5,000	>5,000	>5,000
Daphnia magna, EC50 ppm, OECD 202	>5,000	>5,000	>5,000	>5,000
Algae EC50, ppm, OECD 203	100 - 1000	100 - 1000	100 - 1000	100 - 1000

Other notes: EnviroLogic® 3032/3046/3068/3100 meet the requirements for the following manufacturers and most major manufacturers: Denison HF-O, Vickers M-2950-S, Vickers V-104C, Vickers 35VQ-25, Cincinnati Milacron P-68/P-70/P-69, Sauer Sundstrand, Rexroth, Parker, Linde, ATI 9101, Denison TP 30283A, and Vane Pump Test/P46 Pump Test.



“Solutions for a Greener World”