



## ECO ULTRA® HYDRAULIC OILS

ECO ULTRA® Hydraulic Oils are superior anti-wear hydraulic and circulating fluids blended with highly re-refined Group II base oils. These hydraulic oils provide outstanding resistance to sludge formation and exhibit excellent antiwear protection. Rust and oxidation preventive capabilities, including superior demulsibility properties, make these oils rugged, even in high-output systems. These oils also feature excellent vane pump and piston pump performance, anti-foam characteristics and superior hydrolytic stability. In addition to having excellent performance these oils also exhibit inherently biodegradability characteristics.

ECO ULTRA Hydraulic Oils resist deterioration and perform at superior levels, even at high operating temperatures, pressures and speeds and low pour point ensures easy system start-up in cold conditions.

<u>PROPERTY</u>	<u>ASTM TEST METHOD</u>	<u>ISO #32</u>	<u>ISO #46</u>	<u>ISO #68</u>	<u>ISO 10W40</u>
Viscosity @ 40°C, cSt	D445	32.9	46.5	68	110
Viscosity @ 100°C, cSt	D445	5.5	6.8	8.5	14.8
Viscosity Index	D2270	102	100	95	130
Flash Point, °C	D92	212	220	242	212
°F		414	428	468	414
Pour Point, °C	D97	-34	-30	-24	-30
°F		-30	-22	-11	-22
Color	D1500	1.0	1.0	1.5	1.5
Gravity, °API	D4052	31.3	30.4	29.3	30
Dielectric Strength, kV		35	35	35	35
Turbine Oil Oxidation	D943	3680	3540	3500	3500
Rust Test	D665	Pass	Pass	Pass	Pass
Emulsion Test	D140	40-40-0	40-40-0	40-40-0	40-40-0
Biodegradability %	D5864	28.2	28.0	28.0	

Meets or exceeds the following tests and requirements:

- AFNOR E 48-603
- B. F. Goodrich - 0152
- Cincinnati Milacron - P-68, P-69, P-70
- Denison - HF-0, HF-1, HF-2
- DIN 51524, Part 2
- Ford - M-6C32
- General Motors - LH-04-1, LH-06-1, LH-15-1
- Jeffrey - #87
- Lee Norse - 100-1
- Racine - Model S, variable volume vane pump
- U.S. Steel - 136, 127
- Vickers - I-286-S, M-2950-S, 35VQ25
- Inherently Biodegradable

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