



Product Data Sheet

ECOSE® GREEN NS HYDRAULIC OIL

No Sheen, Non-Toxic, Anti-Wear

Premium high-performance ashless, zinc free anti-wear hydraulic oils designed for use in various mobile and stationary hydraulic equipment, compressors and lifts that operate in environmentally sensitive areas where leaks or spills of hydraulic fluid could result in contamination of the soil or nearby waterways. The zinc free formulation is nontoxic to aquatic life and has been formulated to comply with the U.S. EPA LC-50 testing criteria adopted by the U.S. Fish and Wildlife Service for mysidopsis-bahia shrimp, rainbow trout and fathead minnows. This environmentally friendly hydraulic oil is ideally suited for applications that require strict compliance with U.S Coast Guard static sheen test requirements.

Features and Benefits

- High Performance – ashless, zinc free anti-wear protection for critical system components
- Environmentally Friendly / Non-Toxic
- Inherently Biodegradable- when compared with conventional AW hydraulic oils
- Longer Service Life – when compared to conventional zinc containing hydraulic oils or vegetable base oils

Applications

- Denison HF-0
- Eaton Vickers M-2950-S and I-286-S
- ISO 11158
- MAG (formerly Cincinnati Machine) P68 (ISO 32), P-70 (ISO 46) and P-69 (ISO 68)
- Bosch-Rexroth RD 90220
- DIN 51524 Part 2 HLP
- Conestoga Pump Test ISO 20763
- ASTM D6158 and SAE MS 1004

Typical Properties

These properties are typical of current production, minor variations are to be expected in normal manufacturing.

ISO Viscosity	Test Method	22	32	46	68
Product Code		534930	534932	534946	534968
Specific Gravity, 15.6 °C		0.83	0.85	0.86	0.87
Density, lb.gal		6.91	7.05	7.14	7.22
Viscosity cSt @ 40°C	ASTM D445	23.4	32	46	68
Viscosity cSt @ 100°C	ASTM D445	4.7	5.5	6.8	8.8
Viscosity Index	ASTM D2270	108	105	102	100
Color	ASTM D1500	L1.0	L1.0	L1.0	L1.0
Flash Point, COC, °F (°C)	ASTM D92	410 (210)	420 (215)	425 (218)	430 (221)
Oil Life, hrs. to 2.0 Acid No.	ASTM D943	6,000+	6,000+	6,000+	6,000+
Pour Point °F (°C)	ASTM D97	-33 (-36)	-20 (-28)	-20 (-28)	-20 (28)
Four Ball Wear, 40Kg	ASTM D4172	0.38	0.38	0.35	0.40

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