

PRODUCT INFORMATION

# ECOSE<sup>®</sup> NZ HYDRAULIC FLUIDS

**ECOSE<sup>®</sup> NZ Hydraulic Fluids** are premium non-zinc antiwear hydraulic oils developed for high pressure, high output systems and other requirements where an ashless product is desired. They are designed for use in high pressure, high speed hydraulic pumps used in industrial and mobile hydraulic systems.

**FEATURES AND BENEFITS:**

- Excellent anti-wear protection for pumps, motors, valves and other hydraulic components
- Excellent rust and corrosion protection for all metal components
- Full antioxidant and anti-foam protection; low air entrainment
- Outstanding hydrolytic stability
- Ashless, high thermal stability

**APPLICATIONS:**

**ECOSE<sup>®</sup> NZ Hydraulic Fluids** are recommended where environmental or other considerations prevent the use of fluids containing heavy or near-heavy metals such as zinc. Full protection is provided for high pressure vane and piston pumps as well as gear type. Other applications include air compressors, non-EP gear and bearing circulating oil systems. They meet the requirements for:

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|--|--|
| • Denison HF-0, HF-1, HF-2             | • General Motors LH-04-1, LH-06-1, LH-03-1 |
| • Vickers I-286S, M-2952-S             | • Lee Norse 100-1                          |
| • Cincinnati Milacron P-68, P-69, P-70 | • Ford M-6C32                              |
| • US Steel 127, 136                    | • BF Goodrich 0152                         |
| • Jeffrey No. 87                       |  |

**AVAILABILITY:**

**ECOSE<sup>®</sup> NZ Hydraulic Fluids** are available throughout Nu-Tier Brands' marketing area. Your Nu-Tier representative can provide specific information. Need additional information? Call Nu-Tier Brands @ 1-877-771-LUBE (5823) or visit [Nu-tierbrands.com](http://Nu-tierbrands.com).

## ECOSE® NZ Hydraulic Oils

### Typical Properties

ISO Viscosity Grade		22	32	46	68	100
Product Code	<b>Test Method</b>	534226	534228	534230	534241	534243
Viscosity, cSt @ 40°C	ASTM D-445	22.0	31.1	44.5	66.0	97.0
Viscosity, cSt @ 100°C	ASTM D-445	4.3	5.4	6.6	8.6	11.2
Viscosity Index	ASTM D-2270	101	100	100	100	100
Pour Point, °F	ASTM D-5949	-40	-20	-20	-20	-10
Flash Point, COC, °F	ASTM D-92	400	410	430	450	490
Rust Test	ASTM D-665 A&B	Pass	Pass	Pass	Pass	Pass
Oxidation Stability, hours	ASTM D-943	5,000+	5,000+	5,000+	5,000+	5,000
Cincinnati Machine		-	P-68	P-70	P-69	N/A
API Gravity, 60°F	ASTM D-4052	33.4	33.0	32.8	32.0	31.2
Density, lbs/gal (g/L)	Calculated	7.14	7.16	7.17	7.21	7.24
Environmental Performance						