



LUBRICANTS



Product Data Sheet

Harmony[®] NZ Hydraulic Fluid

Ashless zinc free hydraulic oil

Premium non-zinc anti-wear 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. This lubricant is recommended for 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.

Features and Benefits

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

Applications

- Denison HF-0, HF-1, HF-2
- Vickers I-286S, M-2952-S
- Cincinnati Milacron P-68, P-69, P-70
- US Steel 127, 136
- BF Goodrich 0152
- General Motors LH-04-1, LH-06-1, LH-03-1
- Lee Norse 100-1
- Ford M-6C32
- Air compressors
- Non-EP gear and bearing circulating oil systems

Typical Properties

ISO Viscosity Grade		22	32	46	68	100
Product Code	Test Method	334226	334228	334230	334241	334243
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
API Gravity, 60°F	ASTM D-4052	33.4	33.0	32.8	32.0	31.2

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

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