



Product Bulletin



GULF HARMONY[®] NZ HYDRAULIC FLUID

Ashless zinc free hydraulic oils

Gulf Harmony[®] NZ Hydraulic Fluids are 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.

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:

Gulf Harmony[®] 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:

- 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
- Jeffrey No. 87
- General Motors LH-04-1, LH-06-1, LH-03-1
- Lee Norse 100-1
- Ford M-6C32
- BF Goodrich 0152

AVAILABILITY:

Gulf Harmony[®] NZ Hydraulic Fluids are available throughout Gulf's marketing area. Your Gulf representative can provide specific information. Need additional information? Call Gulf @ 1-800-566-GULF (4853) or visit Nu-tierbrands.com.

Gulf Harmony® NZ Hydraulic Oils

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
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