



UNITED HYDRO VESTA HYDRAULIC OIL HX

Product Description:

United Hydro Vesta Hydraulic Oils HX offer state of the art formulations that produce a line of universal anti-wear long life hydraulic oils having all the wear preventive characteristics required for the most severe of applications, including high pressure vane pumps. It is formulated with ashless and zinc free additive package that make it suitable for pump containing steel-on-bronze lubrication surfaces and silver plate.

United Hydro Vesta Hydraulic Oils HX possess excellent thermal and oxidative stability thanks to its fully synthetic content. They can function for much longer operational periods without forming sludge, varnish or other degradation products, which adversely affect the operation and performance of today's modern hydraulic system components and filtration systems.

United Hydro Vesta Hydraulic Oils HX have excellent hydrolytic stability, providing protection to all hydraulic system components even in the presence of moisture. Additives used in some hydraulic oils break down under conditions of high temperature and moisture to form acids that can attack copper and its alloys such as brass and bronze.

Applications / Benefits:

- ▣ Highly resistant to oxidation that would result in sludge formation.
- ▣ Resists foaming and aeration that could result in erratic equipment operation and increased oxidation.

Typical Characteristics:

Test Description	Method	22	32	46	68	100	150
ISO Viscosity Grade	-	22	32	46	68	100	150
Specific Gravity @ 15 °C	ASTM D 4052	0.854	0.865	0.878	0.884	0.888	0.893
Flash Point, °C	ASTM D 92	210	212	222	225	230	238
Pour Point, °C	ASTM D 97	-33	-33	-30	-27	-24	-21
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	22.1	32.0	46.3	66.2	100	148
cSt @ 100°C	ASTM D 445	4.45	5.4	6.8	8.6	11.2	14.5
Viscosity Index	ASTM D 2270	112	102	100	100	97	96
Color	ASTM D 1500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.5

Specifications, Approvals & Recommendations:

- Denison HF-0, HF-1, and HF-2
- Jeffry No. 87,
- Ford M-61C13227 13,
- U.S Steel 127, 136
- Cincinnati Machine P- 68 (ISO 32)
- Cincinnati Machine P- 70 (ISO 46)
- Cincinnati Machine P- 69 (ISO 68)
- DIN 51524, Part 2
- Bosch, variable vane pumps
- Vickers M-2590-S
- Vickers I-286-S
- Lee Norse 100-1
- General Motor LH-04-1
- General Motor LH-06-1
- General Motor LH-15-1
- B.F. Goodrich
- Sauer Danfoss
- Rexroth