



PLUTUS HYDRAULIC OIL HX

Product Description:

Plutus 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.

Plutus Hydraulic Oils HX possess excellent thermal and oxidative stability. 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.

Plutus 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	15	22	32	46	68	100
ISO Viscosity Grade	-	15	22	32	46	68	100
Specific Gravity @ 15 °C	ASTM D 4052	0.845	0.854	0.865	0.878	0.884	0.888
Flash Point, °C	ASTM D 92	190	205	212	222	225	230
Pour Point, °C	ASTM D 97	-36	-33	-33	-30	-27	-24
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	15.3	22.1	32.0	46.3	66.2	100
cSt @ 100°C	ASTM D 445	3.42	4.45	5.4	6.8	8.6	11.2
Viscosity Index	ASTM D 2270	105	112	102	100	100	97
Color	ASTM D 1500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

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Product Data Sheet

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

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