

Hydraulic HP Premium

High-performance synthetic hydraulic oil

Features & benefits

- Full Synthetic
- Multi-grade all-season fluid
- Expanded operating temperature range
- Boosted zinc-based additive package
- Excellent corrosion and wear protection for extended pump life
- Superior foam resistance
- Excellent water tolerance
- Outstanding oxidation resistance for long service life

Specifications

- Suitable for use

Specification	Hydraulic HP Premium
AIST (Formerly US Steel) 126	■
ASTM D6158 (HV)	■
China L-HM	■
DIN 51524 - 3 (HVLP)	■
Eaton 03-401 2010 (M-2590-S and I-286-S)	■
Fives P-70	■
ISO 11158 (HV)	■
Parker HF-0	■

Typical results

Test Method	Hydraulic HP Premium
ISO GRADE	46
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	45.8 9.9
VISCOSITY INDEX (D2270)	210
ASTM COLOUR (D1500)	1.0
DENSITY @ 15°C (D4052), kg/L	0.84
POUR POINT (D97), °C	-42
FLASH POINT (D93), °C	197
OXIDATION LIFE (D943), hrs	8,000+
TOTAL ACID NUMBER (TAN) (D664), mg KOH/g	0.8
ZINC CONTENT (D4951), %wt	0.075

Sizes & order codes

Size	Hydraulic HP Premium
18.9 L (5 US Gal)	F0113940
Bulk	B0113901



Hydraulic HP premium is a high-performance, multi-grade, anti-wear synthetic hydraulic fluid developed to match John Deere's Hydrau™ XR fluid.

Hydraulic HP premium's synthetic base oils and boosted additive package provide enhanced oxidative thermal stability for better fluid and equipment durability, providing an oxidation life of more than 8,000 hours, reducing total fluid consumption and extending maintenance intervals without sacrificing reliability.

Hydraulic HP premium's multi-grade abilities allow the fluid to stand up to the high-shear environments of hydraulic pumps and motors, allowing for lower start-up temperature and higher operating temperature than the comparable monograde hydraulic oil. The expanded operating temperature range provides better productivity, operational flexibility and the possibility of using one grade year-round.

Hydraulic HP premium is suitable for mobile and fixed machinery in outdoor locations, all hydraulic pumps and motors, even at pressures as high as 5,000 psi (350 Bar). It is NOT recommended for use with pumps that contain silver-plated parts.

For John Deere and Hitachi excavators using a zinc-free hydraulic fluid, a system flush of (Hitachi) zinc-free hydraulic fluid is required prior to using zinc-based fluid.



Always consult your owner's manual for verification of fluid type and grade!

Supporting data available to demonstrate acceptable performance. Check with Sales Associate for the latest product approvals.

Please note these are typical performance indicators and can change without notice.

This data sheet replaces previous versions prior to November 11, 2023.

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