



Hydraulic HP

High-Performance Synthetic Hydraulic Oil



Features & Benefits

- Full Synthetic
- Multi-grade, all-season fluid
- Expanded operating temperature range
- 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/Claims	Hydraulic HP
ATSM D6158 (HV)	■
Eaton 03-401 2010 (M-2590-S and I-286-S)	■
DIN 51524 - 3 (HVL P)	■
Fives Cincinnati (P70)	■
China L-HM General	■
ISO 11158 (HV)	■
AIST (US Steel) 126	■

Typical Results

Test Method	Hydraulic HP
ISO GRADE	46
DENSITY @ 15°C (D4052) (kg/L)	0.85
ASTM COLOUR (D1500)	1.0
VISCOSITY (D445)	
cSt @ 40°C	45.3
cSt @ 100°C	9.8
VISCOSITY INDEX (D2270)	209
POUR POINT (D97) (°C)	-42
OXIDATION LIFE (D943 (hrs)	8000+
FLASH POINT (D93) (°C)	198
TOTAL ACID NUMBER (D664) (mgKOH/g)	0.5
ZINC CONTENT (D4951) (%wt)	0.04

Sizes & Order Codes

Size	Hydraulic HP
18.9 L / 5 US Gal	F0091840
205 L / 54.2 US Gal	F0091850
1000 L / 264 US Gal	F0091860
1000 L / 264 US Gal Bulk Tote	F0112001
Bulk	B0091801

Hydraulic HP is a high-performance, multi-grade, anti-wear synthetic hydraulic fluid developed for extended service life and year-round performance. The synthetic base oil and superior additive chemistry offer advanced wear and corrosion protection and double the service life compared to typical hydraulic fluids.

Hydraulic HP uses synthetic base oils to provide the ideal building blocks for creating a hydraulic product with superior capabilities. This solid foundation offers enhanced oxidative thermal stability for better fluid and equipment durability. This gives the oil an oxidation life of more than 8,000 hours, reducing total fluid consumption and extending maintenance intervals without sacrificing reliability.

Hydraulic HP is a true multi-grade hydraulic fluid formulated to stand up to the high-shear environments of hydraulic pumps and motors. This allows for lower start-up temperature and higher operating temperature than the comparable monograde hydraulic oil. This more comprehensive operating temperature range provides better productivity, operational flexibility and the possibility of using one grade year-round instead of changing grades of regular hydraulic oil with the seasons.

Hydraulic HP 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 those pumps that contain silver plated parts.



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

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals.

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

This data sheet replaces previous versions prior to March 9, 2023.

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