



# HYDRAULIC HP

## High Performance Hydraulic Oil



**HYDRAULIC HP** is a high performance, multi-grade, anti-wear, synthetic hydraulic fluid developed to provide extended service life and year round performance. The synthetic base oil and superior additive chemistry offers advanced wear protection, corrosion protection and doubles the service life compared to typical hydraulic fluids. Modern hydraulic system designs utilize smaller fluid reservoirs placing an even greater demand on the hydraulic fluid. Thermal stability and the ability to release air are critical to the durability of these new systems.

**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.

**HYDRAULIC HP** performs at more than 8,000 working 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.

**HYDRAULIC HP** allows lower start-up temperature and higher operating temperature than the comparable monograde hydraulic oil. This wider operating temperature range provides better productivity, operational flexibility and the possibility of using one grade year round instead of having to change grades of regular hydraulic oil with the seasons. It is well suited to use in mobile machinery and fixed machinery in outside locations.

**HYDRAULIC HP** is suitable for use with all types of 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.

### Features & Benefits

- Excellent corrosion and wear protection for long pump life
- Superior foam resistance for efficient pump operation
- Excellent water tolerance when contamination is unavoidable
- Outstanding oxidation resistance for long service life
- Expanded operating temperature range

### Specifications

Suitable for use where the following industry standards are called for:
ASTM D6158 HV
Eaton 03-401 2010
DIN 51524 Part 2 & 3
Fives Cincinnati (P70)
China L-HM General
ISO 11158 HV & HM
U.S. Steel 126

### Typical Results

Test Method	Hydraulic HP
<b>DENSITY @ 15°C</b> (D4052), kg/L	0.84
<b>COLOUR</b> (D1500)	1.0
<b>VISCOSITY</b> (D445) cSt @ 40°C cSt @ 100°C	46.2 10.0
<b>VISCOSITY INDEX</b> (D2270)	212
<b>POUR POINT</b> (D97), °C	-42
<b>OXIDATION LIFE</b> (D943), hrs	8000+
<b>FLASH POINT</b> (D93), °C	214
<b>TOTAL ACID NUMBER</b> (D664), mgKOH/g	0.67
<b>ZINC CONTENT</b> (D4951), %WT	0.043

### Sizes & Order Codes

Hydraulic HP
205L (54,2 US Gal) F0091850
1000L (264 US Gal) F0091860
Bulk B0091801

[www.irvingoil.com/lubricants](http://www.irvingoil.com/lubricants)  
1.800.574.5823

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 01-22-20.

[www.irvingoil.com/lubricants](http://www.irvingoil.com/lubricants) 1.800.574.5823