

# HYDRAULIC HP

## High Performance Hydraulic Oil



### Features & Benefits

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

### Meets or Exceeds manufacturers and industry test standards

Denison HF-0	X
Cincinnati- Milacron P-70	X
Vickers M-2950-S and I-286-S (includes 35VQ25 vane pump test)	X
Racine model 'S' 1000 hour variable volume vane pump wear test	X
Sunstrand	X
Linde DIN 51524 Part 2&3	X
Bosh Rexroth Corp.	X

**Always refer to your OEM's  
suggested service  
recommendations**

### Sizes & Order Codes

Hydraulic HP 46
205L (54,2 US Gal) F0091850
1000L (264 US Gal) F0091860
Bulk B0091801

**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, 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. Faster cycle times mean the fluid operates at higher temperatures with a greater foaming tendency which in turn causes thermal stress and cavitation damage. 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 to over 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 environment of hydraulic pumps and motors without losing the multi-grade nature.

**HYDRAULIC HP** allows lower start-up temperature and higher operating temperature than the comparable single grade hydraulic oil. This wider operating temperature range provides better productivity, better 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. Instead, use **SYNTHETIC D&E**.

### Typical Results

ISO GRADE	46
DENSITY @ 15°C (D4052), kg/l	0.8459
COLOUR (D1500)	1.0
VISCOSITY (D445) CST @ 40°C CST @ 100°C	42 9.4
VISCOSITY INDEX (D2270)	216
POUR POINT (D97), °C	-42
OXIDATION LIFE (D943), HRS	8000+
FLASH POINT (D92), °C	242
ACID NUMBER (TAN)(D974), mgKOH/g	0.85
ZINC CONTENT (%WT)	0.043
USEFUL OPERATING TEMPERATURE, °C, MIN/MAX	-20°C / 84°C
COPPER CORROSION 3H/100°C	1a
DIELECTRIC STRENGTH, kv (D877)	54
BROOKFIELD VISCOSITY (D2983) cP@-40°C	15,400



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Supporting data available to demonstrate appropriate performance.  
Check with your Sales Representative for latest product approvals.  
Please note, these are typical performance indicators and can change without notice.  
This data sheet supersedes any previous version prior to 5/25/2018.