



Peregrine

Additives & Lubes

PAL HYFLUID HV **Wide Temperature Range Hydraulic Oils**

Last Revision: 29/07/19

Description

PAL HYFLUID HV Series is formulated to provide outstanding anti-wear protection for extended equipment life. They are designed for year-round use in hydraulic power and control systems that are subjected to the extremes of temperature. A specially developed, exceptionally shear stable viscosity modifier has been incorporated into HYFLUID HV fluids, which exhibit superior low-temperature pumpability and low pour point characteristics.

PAL HYFLUID HV Series is available in a wide range of viscosities for different operating requirements and provides superior wear protection, rust and corrosion inhibition, improved oxidation resistance and thermal stability. Good foam suppression and excellent water separation characteristics ensure efficient hydraulic operations, including those systems with high circulation rate and low residue time. HYFLUID HV Series meets the requirements of many major industrial specifications and hydraulic pump manufacturers, including the tests against the Denison Hydraulic's premium HF-0 requirements.

Performance Standards

ASTM D6158	ISO 11158 (HM, HV)
AGMA 9005-E02-RO	JCMAS P041 HK Hydraulic specification
Bosch Rexroth RE 90220	MAG P-68, P-69, P-70 (HM, HV)
DIN 51524-2(HM), DIN 51524-3(HV)	Parker HF-0, HF-1, HF-2 (HM, HV)
Eaton M-2950-S & I-286-S3	SAE MS 1004 (HM, HV)
GM LS 2	SEB 181222

Features

- Exceptional oxidation and thermal stability, giving long oil service life.
- Outstanding wear protection means extended equipment life in severe operating services.
- Excellent filterability and water performance.
- Foam inhibition reduces the danger of pump failure due to cavitation.
- Reduce maintenance costs due to less frequent oil changes.
- Excellent air release capability
- Protect against rust and corrosion
- Excellent low-temperature performance

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318-222-8787



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Applications

- Specifically designed for use in high-pressure systems, which require greater wear protection and deposit control than those provided by standard anti-wear hydraulic fluids.
- Recommended for a wide variety of high pressure mobile and stationary hydraulic systems utilizing vane, piston or gear pumps.
- Can be used year-round in hydraulic systems in virtually all climates.
- Suitable for use in machine tools, presses, die casting machines, circulating systems and hydraulic control systems.

Typical Properties

ISO VG	15	22	32	46	68	100
Density@15°C, kg/L	0.851	0.860	0.862	0.868	0.870	0.880
Colour ASTM	0.5	0.5	1.0	1.0	1.0	1.5
Viscosity@40°C, cSt	15.3	21.6	32.6	46.0	66.1	101.0
Viscosity@100°C, cSt	3.5	5.0	6.5	8.1	10.4	14.0
Viscosity Index	151	168	160	150	145	142
Flash Point, °C, COC	200	202	225	228	236	240
Pour Point, °C	-51	-54	-48	-39	-33	-30
Emulsion Characteristics (time to 40-40-0) minutes	5	5	5	10	10	10

Typical values do not constitute as specifications. Due to continual product research and development, the information contained herein is subjected to change without notification

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