Hydraulic Oils

High performance hydraulic oil

Spectra Hydraulic Oils are a premium quality Group II solvent refined, high viscosity index mineral oil based fluids generally acknowledged to be the 'standard-setter' in the field of industrial hydraulic and fluid power lubrication

Applications

- Industrial hydraulic systems
- Mobile hydraulic fluid and power transmission systems

Performance Features and Benefits

- **Thermal stability**
  Thermal stable in modern hydraulic systems working in extreme conditions of load and temperature. Spectra Hydraulic oils are highly resistant to degradation and sludge formation therefore improving system reliability and cleanliness.

- **Oxidation resistant**
  Resist oxidation in the presence of air, water and copper. Turbine Oil Stability Test (TOST) results show outstanding performance for Hydraulic Oils; low acidity, low sludge formation, low copper loss; therefore extending oil drain interval life and minimising maintenance costs

- **Hydrolytic stability**
  Spectra Hydraulic Oils have good chemical stability in the presence of moisture, which ensures long oil life and reduces the risk of corrosion and rusting.

- **Outstanding anti-wear performance**
  In addition to meeting all major global hydraulic specifications, it reduces wear, valve sticking, metal transfer and filterability issues; handles more demanding duty cycles and resists oil degradation at higher operating temperatures.

- **Superior filterability**
  These hydraulic Oils are suitable for ultra-fine filtration, an essential requirement in today's hydraulic system. Unaffected by the usual products of combustion, such as water and calcium, which are known to cause blockage of fine filters. Customers can use finer filters, therefore achieving all the benefits of having to use cleaner fluids.

- **Low friction**
  These Hydraulic Oils possess high lubrication properties and excellent low friction characteristics in hydraulic systems operating at low or high speed. Prevents stick-slip problems in critical applications enabling very fine control of machinery.
- **Excellent air release and anti-foam properties**
  Careful use of additives to ensure quick air release without excessive foaming. Quick air release helps minimise cavitation and slow oxidation, maintaining system and fluid performance.
- **Good water separation**
  Good water separation properties (demulsibility). Resists the formation of water-in-oil emulsions and prevents consequent hydraulic system and pump damage.

Specifications and Approvals

Spectra Hydraulic Oils have the following approvals:

- Cincinnati Machine P-68, P-69 and P-70
- Denison HF-0, HF-1 and HF-2
- Eaton Brochure 694 for 35VQ25A (formerly M-2950-S and I-286-S)
- DIN 51524 Part 2 (HLP) & Part 3 (HVLP)
- GM LS2
- ISO 11158 Categories HM and HV
- ASTM D6158 Type HM and HV
- AFNOR NF E 48-603 HM and HV

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Compatibility

Spectra hydraulic oils are compatible with most pumps. However, please consult your Spectra Representative before using in pumps containing silver plated components.

Seal & Paint Compatibility

Spectra hydraulic oils are compatible with all seal materials and paints normally specified for use with mineral oils.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet which can be obtained from your Spectra representative.

Protect the environment

Take used oil to an authorised collection point.
Do not discharge into drains, soil or water.

Typical Physical Characteristics

Hydraulic Oil HM	**32**	**46**	**68**	**100**
Grade ID	32	46	68	100
Kinematic Viscosity				
@ 0°C mm^2/s	338	580	1040	1780
40°C mm^2/s	32	46	68	100
100°C mm^2/s	5.5	6.995	9.022	12.22
Viscosity Index (D2270)	108	111	109	113
Density @ 15°C kg/m3 (IP 365)	0.875	0.879	0.886	0.891
Pour Point **°C** (IP 15)	-30	-30	-24	-24
Flash Point **°C** **(IP 34)**	209	218	223	234

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