

PRODUCT DATA SHEET



Very High Viscosity Index (VHVI) Multigrade Hydraulic Oil | Industrial Oil

Product Description

Marathon Very High Viscosity Index (VHVI) Multigrade Hydraulic Oils feature advanced anti-wear technology and cold temperature flow properties. This elite hydraulic oil boasts an anti-wear additive package with extreme pressure (EP) performance and an excellent shear stable polymer. The result is reduced wear in high-speed, high-pressure vane / gear pumps.

VHVI Multigrade hydraulic Oils are ideal for hydraulic and fluid power transmission systems subjected to wide temperature swings. The dynamic cold flow properties offer improved pumpability, even in low temperatures. This hydraulic oil is compatible with most seal materials and paints normally specified for use with mineral oils. It also works well in systems that require dielectric hydraulic oil.

Features

- **Exceptional Demulsibility (ability to release water)**
Facilitates water removal
- **Reduces Viscosity Changes**
Advanced polymer technology offers low temperature performance. Machinery precision ensured in hot, cold, and high load conditions, as well as large temperature variations
- **High Shear Stability**
VI Improver offers outstanding resistance to mechanical stress. “Stay-in-Grade” characteristics provide exceptional lubrication and long oil life
- **Quick Air Release + Great Foam Inhibition**
Minimizes pump cavitation in high circulation rate systems
- **Exceptional Filterability**
Reduces risk of filter blockage
- **Minimizes Wear & Corrosion**
Stellar hydrolytic stability and wear protection cuts down negative impact of inevitable water condensation in machinery after shutdown
- **Reduces Oil Consumption**
Impressive shear and oxidation stability also minimize oil consumption and protect equipment

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Industry & OEM Applications¹

- Parker Denison HF-0 (HF-1 & HF-2 are part of the HF-0 designation)
- DIN 51524 Part 3
- Eaton Vickers E-FDGN-TB002-E (spec supersedes I-286-S & M-2950-S)
- FIVES (formerly MAG, formerly Cincinnati Milacron) P-68, P-69, P-70
- ISO 11158, ASTM D6158-05
- ASTM D6158-16

Technical Data (Typical values)

ISO Grade	ASTM	32	46	68
Product Numbers		1066 (bulk)	1067 (bulk)	1068 (bulk)
Viscosity @ 100°C, cSt	D445	6.3	7.99	10.71
Viscosity @ 40°C, cSt	D445	33.09	46.74	65.53
Viscosity Index	D2770	144	143	154
Specific Gravity at 60°F	D4052	0.8605	0.8675	0.8714
Pour Point, °C	D5950	-51	-51	-51
Color ASTM	D1500	L0.5	L0.5	L0.5
Demulsibility	D1401	40-38-2 (20 min)	40-39-1 (5 min)	42-38-0 (10 min)
Foam Characteristics	D892	Pass	Pass	Pass
Total Acid Number, mg KOH/G	D664	0.411	0.437	0.436
Dielectric Strength ³ , kV	D877	49	42	40

(1) Consult your owner's manual regarding its suitability for use in equipment from other OEMs. These hydraulics perform in most equipment without concern for fluid-related harm.

(2) Dielectric Strength for non-conductive measurements is valid only at shipping point

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.