



ANTI-WEAR Hydraulic Oils

Description

Premium Anti-wear Hydraulic Oils are superior quality hydraulic fluids, designed to meet the most stringent requirements of all major manufacturers and users of hydraulic equipment.

Premium Anti-wear Hydraulic Oils derive their anti-wear properties from a robust zinc dialkyldithiophosphate (ZDDP) additive. This special additive is very effective in reducing vane, gear and radial piston pump wear.

Premium Anti-wear Hydraulic Oils are the first choice for hydraulic power transfer in systems operating at high loads, speeds and temperatures.

Premium Anti-wear Hydraulic Oils have been specifically formulated to meet or exceed the requirements of all conventional and high-output industrial and mobile hydraulic systems.

Features/Benefits

- ✓ **Proven Field Performance**
- ✓ **Excellent Filterability**
- ✓ **Superior Rust and Corrosion Protection**
- ✓ **Exceptional Water Separation**
- ✓ **Excellent Hydrolytic, Thermal and Oxidation Stability**
- ✓ **Resists Foaming in Service**

Meets or Exceeds the Requirements of:

ASTM D6158 HM, HMHP; **Bosch Rexroth** RDE-90235; **Chinese Standard** GB 11118.1 L-HM High Pressure and General; **Danielli** 0.000.001 Type 10 and 11 (ISO 46 and 68); **DIN** 51524-2 HLP; **Eaton Brochure** 03-401-2010; **Eaton Lubricant Specification** E-FDGN-TB002-E; **Eaton Vickers** I-286-S, M-2950-S; **Fives Cincinnati** P-68, P-70, P-69 (ISO 32, 46, 68); **GM** LS-2; **ISO** 11158 HM; **JCMAS** HK P041; **Parker Denison** HF-1, HF-2, HF-0; **SAE** MS1004; **Swedish Standard** SS 155434:2015; **U.S. Steel** 126; **ZF** TE-ML 07H, TE-ML 21M

Typical Properties

Properties	150	200	300	500	750
Product Number	160	162	165	167	170
ISO Grade	32	46	68	100	150
API Gravity @ 60°F	31.5	30.3	28.9	28.3	28.2
Viscosity @ 40°C, cSt	32	46	68	100	150
Viscosity @ 100°C, cSt	5.4	6.8	8.7	11.3	14.6
Viscosity Index, typ	100	100	95	95	95
Pour Point °F	-20	-15	-10	10	15
Vis Grade Performance					
FZG fail stage DIN 51354	11	11	11	11	11
DIN 51524 Part 2	HLP 32	HLP 46	HLP 68	HLP 100	HLP 150
Cincinnati Milacron	P-68	P-70	P-69	-	-