



**OUR BUSINESS IS HEAVY DUTY LUBRICANTS**

Tel: (305)681-6110 Fax: (305)681-0906 / Miami, FL 33167 www.PETRO-FLORIDA.com

## PRODUCT SPECIFICATIONS & TECHNICAL DATA

### HIGH VISCOSITY INDEX HYDRAULIC OIL ISO 15,22,32,46,68,100

**PETROFLO HIGH VISCOSITY INDEX HYDRAULIC OILS** is a supreme performance anti-wear hydraulic fluid, designed for use in hydraulic systems exposed to extreme mechanical stress and pressure and across a wide range of temperatures. **PETROFLO HVI HYDRAULIC OILS** are designed to provide exceptional protection and performance in service on both mobile and plant equipment and systems operating under severe conditions where high levels of antiwear.

**PETROFLO HVI HYDRAULIC OILS** meets the performance requirements of all major hydraulic pump manufacturers, and is recommended for use in all types of high-pressure, high-speed hydraulic pumps.

#### FEATURES AND BENEFITS

- High Viscosity Index
- Excellent Wear and Sludge protection to hydraulic systems and components.
- Superior Load Carrying and anti-wear performance, delivering improved pump life performance through reduced wear.
- Effective wet and dry filterability, superior water separation, air-release and anti-foam properties ensure optimum protection of equipment and while enhancing the transfer of power from your hydraulic system and increasing filter and fluid life.
- Thermal and Oxidative Stability, reduces potential for the formation of costly sludge and varnish which impact system performance and component life, ensuring you enjoy maximum system performance and reduced operational costs.
- Increased corrosion protection for both iron and copper components, inhibits rust and corrosive wear leading to extended equipment life and lower overall costs.
- Good foam tendencies and increased anti-foam properties ensure accelerated air release eliminating cavitation in the system resulting in elimination of oxidation to provide extended fluid life and pump damage reducing operational costs.

**PETROFLO HVI HYDRAULIC OILS** meets or exceeds the performance requirements of:

- Parker Hannifin (Denison) HF-0, HF-1, HF-2,
- MAG Cincinnati Machine P-68, P-69, P-70
- JCMAS HK
- General Motors LH-03-1, LH-04-1, LH-05-01, LH-6-1
- U.S. Steel 127 & 136
- AFNOR NFE 48-690 (dry)
- ISO 11158:1997, Family H (Hydraulic Systems), Type HV
- GM LS-2, LF-2, LH-04
- DIN 51524 Part 3, Antiwear Hydraulic Oils, Type HVLP
- AFNOR NFE 48-691 (wet)
- Eaton Vickers M-2950-S & I-286-S
- Bosch Rexroth
- Dennison Filterability TP-02100-A



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### PETROFLO HVI HYDRAULIC OILS are fully compatible with;

Typical seal elastomer and paints that are specified for use with mineral type hydraulic fluids.  
 Typical other, similar types of hydraulic fluids that make use of the same or similar additive packages.

**Not compatible** with certain synthetic fluid types such as Polyalkylene Glycol and Phosphate Esters.

### Typical Properties

ISO Grade	15	22	32	46	68	100
Specific Gravity @ 60° F	0.857	0.857	0.861	0.868	0.874	0.878
Density, lbs/gal @ 60° F	7.14	7.14	7.17	7.23	7.28	7.31
Flash Point (COC), ° C (° F)	183 (361)	193 (379)	204 (399)	213 (415)	218 (425)	218 (425)
Pour Point, ° C (° F)	-55 (-67)	-50 (-58)	-45 (-49)	-45 (-49)	-42 (-44)	-42 (-44)
Viscosity.						
cSt @ 40° C	15.0	22.0	32.0	46.0	68.0	100
cSt @ 100° C	3.7	4.7	6.0	7.7	10.2	13.5
SUS @ 100° F	81.9	114	164	235	349	515
SUS @ 210° F	38.7	42.0	46.3	52.0	60.8	73.5
Viscosity Index	138	136	136	135	135	135
Copper Corrosion,	1a	1a	1a	1a	1a	1a
Demulsibility,	15	15	15	15	15	15
Foam Test,	10/0	0/0	0/0	0/0	0/0	0/0
Oxidation Stability, hours	5,000+	5,000+	5,000+	5,500+	6,000+	6,000+
Rust Test,	Pass	Pass	Pass	Pass	Pass	Pass
Zinc, wt %	0.043	0.043	0.043	0.043	0.043	0.043

The above analyses are typical inspections only and the finished product may vary from batch to batch