



27-10 HUNTERS POINT AVE.  
(49TH AVE.)  
LONG ISLAND CITY  
NEW YORK 11101-4498

TEL. (718) 784-7330  
1-(800) 660-7330  
FAX. (718) 392-8283

SALES@BLACKBEAROIL.COM  
TECHNICAL@BLACKBEAROIL.COM  
LUBRICANTS@BLACKBEAROIL.COM  
FAX@BLACKBEAROIL.COM

## BLACK BEAR HYDRAULIC OIL HVI 15

### OVERVIEW

BLACK BEAR HYDRAULIC OIL HVI 15 are supreme quality anti-wear hydraulic oils specially developed for applications subjected to wide range of temperature or where small viscosity change with fluctuating temperature is needed. They are formulated with severely hydro-processed Group II base oils, a highly shear stable polymer and an advanced additive system to meet the stringent requirements of modern hydraulic systems using high pressure high output pumps and critical requirement of other hydraulic system components such as high accuracy numerically controlled machine tools and those employing close clearance servo valves. Their outstanding thermo-oxidative stability and low & high temperature performance allows for extended service life. They provide excellent anti-wear property, rust & corrosion protection, water separation & air-release properties and hydrolytic stability to reduce breakdowns and help improve production capacity. They are available in ISO viscosity grades 15 through 150 and exceed the performance requirements of global industry standards viz. DIN 51524 Part 3 HVLP, AFNOR NFE 48-603 (HV) & ISO 11158 HV and majority of the international OEMs viz. Poclain, Hitachi, Cincinnati Lamb, Eaton (Vickers) and Denison.

### FEATURES & BENEFITS

- Outstanding thermo-oxidative stability reduces deposit formation, improves pump & valve performance and allows extension of oil and filter change intervals
- Extremely high viscosity index assures equipment protection at cold start-up temperatures and protects system components at high operating temperatures
- Exceptional anti-wear property results in fewer breakdowns, longer pump life and reduced maintenance costs
- Excellent shear stability minimizes viscosity loss over time and exhibits "stay-in-grade" performance under high shear conditions
- Excellent demulsibility helps in faster separation of water from oil and resists formation of emulsions
- Special rust & corrosion inhibitors protect multi-metallurgy components against negative effects of moisture presence in the system
- Rapid air release property minimizes chances of pump cavitation and thus prevents component damage, reduces vibration and maintains efficiency especially in modern hydraulic systems where sump sizes are becoming smaller
- Offers long term hydrolytic stability and yellow metal compatibility in presence of water
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems

### APPLICATIONS

- Hydraulic and power transmission systems subjected to a wide range of ambient & operating temperatures
- Applications requiring extended oil change intervals
- Critical hydraulic systems such as high accuracy numerically controlled machine tools and those employing close clearance servo valves
- Hydraulic systems of excavators, cranes and hydrostatic drives subjected to most severe outdoor operating conditions
- Hydraulic systems operating under high pressures and requiring high degree of load carrying capability and anti-wear protection

### TYPICAL PROPERTIES

<b>PRODUCT CODE</b>	<b>4872</b>
ISO Grade	15
Viscosity, cSt/40 °C	14.9
Viscosity Index	152
Flash Point, COC °F	180
Pour Point, °C	-42
Density @ 15 C	0.855
Rust Test	Pass
Emulsion Test @54 C	Pass
Emulsion Test @82 C	
Foam Test	Nil
TOST hrs.	5000+
FZG minimum	