



**H & B SUPPLY, INC.**  
Dallas, Texas  
(214) 350-1984

**H & B INDUSTRIES, INC..**  
Temple, Texas  
(254) 985-2525

**TECHNICAL DATA SHEET**

# **HB-1150**

## **HyGuard Hydraulic Oil**

### **Multi-Purpose Hi-Heat Non-Foam Anti-Wear**

#### **ISO GRADES 22, 32, 46, 68, 100, 150 & 220**

#### **DESCRIPTION:**

- Blended from highly refined paraffinic base stock oils and selected additives to provide an oil suitable for a wide variety of hydraulic applications.
- Available in various ISO grades, all with excellent low temperature flow characteristics and high viscosity indices.
- Offers maximum performance with no gumming or hardening of seals.
- Blended using base stocks which have excellent resistance to emulsification and high resistance to foaming.

#### **COMPOSITION:**

Utilizing highly refined base stocks and blended with top quality additives which include:

Oxidation inhibitors	Anti-wear agents
Corrosion inhibitors	Anti-foam agents
Rust inhibitors	Pour point depressants

#### **PERFORMANCE CHARACTERISTICS:**

- High viscosity index
- Shows very little flow rate change regard-less of changes in temperature
- Helps to prevent loss of pressure around seals.
- Prevents oxidation which can clog small orifices, tightly fitted parts and lead to corrosion of metal surfaces.
- Special additives prevent rust from forming by providing a protective film on metal surfaces.
- Reduces fluid operating temperatures.
- Provides better overall mechanical efficiency combined with less power consumption.
- Extremely inexpensive due to its long life and reduced wear and tear on parts.

#### **USES:**

- Far exceeds the anti-wear requirements for Vickers Pumps as shown in the Vickers Pump Test and also meets their requirement for a "high zinc" type anti-wear hydraulic oil.
- Fully approved by Sperry-Vickers and by Denison Pump Division under both their HP-2 and HP-0 specifications.
- Meets and exceed the requirements of Cincinnati Milacron.

**APPLICATIONS:**

Construction equipment	Drilling equipment
Mining equipment	Winches
Cranes	Draglines
Plant hydraulics	Gear boxes & bearings
Deck & cargo handling equipment	Air compressors
Logging equipment	Hydraulic platforms

**SPECIFICATIONS:**

<b>PROPERTY</b>	<b>A/W 22</b>	<b>A/W 32</b>	<b>A/W 46</b>	<b>A/W 68</b>	<b>A/W 100</b>	<b>A/W 150</b>	<b>A/W 220</b>
Viscosity Grade	22	32	46	68	100	150	220
ASTM No-	105	150	215	315	465	700	1000
API Gravity	33.2	32.4	31.7	30.9	30.0	28.9	26.8
Lbs. per gallon	7.16	7.2	7.2	7.3	7.3	7.41	7.41
Pour Point, <sup>o</sup> F	-25	-25	-20	-20	-20	-20	-25
Flash Point, <sup>o</sup> F	360	458	500	520	530	530	405
Viscosity, Typical SUS a 100 <sup>o</sup> F SUS a 210 <sup>o</sup> F	94 40	156 43.6	205 47.4	308 53.4	486 64.0	720 72	1012 89.7
Viscosity Index	95	95	95	95	95	95	95
ASTM Rust Test (ASTM D665, A&B)	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Copper Corrosion (ASTM D-130)	1	1	1	1	1	1	1