



## HYDROX ANTI-WEAR FLUID HLPD

**HYDRAULIC OIL ISO 22, 32, 46, 68**

Black Bulls HYDROX HLPD Hydraulic Oils are high performance, ashless zinc free, anti-wear products. Specially formulated with high quality base oil and advance technology additive system. For use in industrial, construction, mining, pick-up hydraulic equipment. It is working under extreme pressure conditions (EP). Hydrox HLPD is specially designed for application where is possible the contamination of oil with water.

### PERFORMANCE LEVELS: Meets and Exceeds

ISO 6743/4, DIN 51524-2 HLP (except desemulsibility), AFNOR NF E 48 603 HM, MAN N 698 H-LP D, MÜLLER WEINGARTEN

### Typical properties:

PROPERTY	TYPICAL VALUES			
ISO GRADE	AW 22	AW32	AW46	AW68
Viscosity @ 40°C, cSt (ASTM D 445)	22.10	32.50	46.5	68.50
Viscosity @ 100°C, cSt (ASTM D 445)	4.35	5.45	6.85	8.80
Viscosity Index	104	102	102	100
Relative Density @20°C	0.8670	0.8750	0.8750	0.8800
Acidity, mgKOH/g	0.50	0.50	0.50	0.50
Air Release Value @50°C	4	4	8	8
Pour point °C	-30	-30	-24	-24
Closed Flash point °C	176	205	226	228
Foam sequence 1, mins	NILL/0	NILL/0	NILL/0	NILL/0
Demulsification (D1401) mins	NIL	NIL	NIL	NIL
4-Ball 1hr Wear @ 30kg, 1640 rpm, mm	0.4	0.4	0.4	0.4
FZG (a/8.3/90) Fail Stage	11	11	12	12
Vickers HP Vane Pump Test		25	25	25

### Advantages:

- Environment friendly
- Excellent oxidation and thermal stability
- Excellent anti-wear protection
- Prevent Rust and corrosion
- Improved foam and air entrainment performance
- Minimum viscosity changes over a wide temperature range.
- Meets major pump manufacturer's requirements
- Good stability in the presence of water





## Performance Specification:

- Recommended in extreme pressure (EP) condition over 5000 PSI.
- Meets major pump manufacturer's requirements

## Applications:

- Is highly recommended for industrial system, machine-tools and construction activities, where a premium ash less and zinc free hydraulic oil with superior performance and water absorption is required .
- Suitable for all types of Pumps.

