

PRODUCT DATA SHEET

HYDROMAX-HLP Extra Heavy-Duty hydraulic oil

Description:

ATMA HYDROMAX-HLP OILS (Extra Heavy-Duty Type) are processed from high viscosity index solvent refined base stocks, inhibited with Anti-Wear, Anti-rust, Anti-foment, Anti-oxidant and demulsifiers to meet the requirement of the following performance standards. These oils also possess good oxidation stability and demulsification properties and are intended to use as additive type Hydraulic oil in various hydraulic machines subjected to shock loads, variable speed for continuous operating conditions of high severity. Available in grades of VG 32/46/68/100.

Specification:

Meets the below physiochemical characteristics of - IS: 11656 - 1986

- DIN HLP Type also passes

Available packs: Available in packs of 5,10,20 LTR, Bulk, 210LTR

Application:

ATMA HYDROMAX-HLP HYDRAULIC OILS (Extra Heavy-Duty Type) are heavy duty type anti-wear Hydraulic oils generally recommended for Lubrication of axle, piston, wear, & gear pumps. These oils are also recommended for use in oil operated fluid power systems that are subjected to shock loads, variable speed for continuous operating conditions of high severity. These oils are also used for moderately loaded industrial gears, bearings and Hydraulic devices with Hydro-mechanical actuator. Also recommended for use in Hydraulic fluids in machine tools, Press, Battery manufacturing plants, Dye casting machines, Production shops, printing works, grinding machines, where oil is recommended as a hydraulic medium to ensure fast, smooth and reliable machine operation with minimum power consumption.

Performance benefits:

- Fast, smooth reliable machine operation.
- Minimum power consumption.
- Ready to separate from water.
- Protection from rust.
- Good oxidation stability.
- Have high FZG RATING
- Have good filterability and Thermal stability.

Physiochemical characteristics:

PARAMETER	TEST METHOD (IS :1448)	VG 32	VG 46	VG 68	VG 100
1. Appearance	Visual	C&B*	C&B*	C&B*	C&B*
2. ASTM Colour, Max	P : 12	L2.5	L2.5	L3.0	L3.0
3. Kinematic Viscosity in cSt @ 40°C	P : 25	30-34	44-48	64-72	90-110
4. Viscosity Index (VI), Min	P : 56	90	90	90	90
5. Flash Point (COC) °C, Min	P : 69	180	180	210	210
6. Foaming characteristics	P : 67				
At 24°C Max		NIL	NIL	NIL	NIL
At 93°C Max		NIL	NIL	NIL	NIL
At 24°C after cooling down from 93°C Max		NIL	NIL	NIL	NIL
7. Neutralization Number	P : 1	Report	Report	Report	Report
8. Pour point °C, Max	P : 10	-3	-3	0	0
9. Emulsion characteristics, Max	P : 91	←-----40-37-3 (20)- -----→		←-----40-37-3 (20)-----→	
10. Copper strip	P : 15	←-----Not worse than 1 -----→			
11. Rust test (Seawater)	P : 96	←----- passes -----→			

Performance additives / chemicals are blended as per recommended dosage level prescribed by additive manufacturer

Performance tests: *Pump wear Vickers 104C. *FZG, Niemann EP test. *Hydraulic stability test.

*Thermal stability test. *Four ball wear test, Air release value

* - Clear, free from water dirt and suspended impurities.

NOTE:

The above data is indicative values only. Minor variations, which do not affect product performance or quality, may be expected in manufacture. Specific requirements shall be custom made on request.