



An ISO 9001:2015 Certified Co.

Product Data Sheet

DC Long Life Hydraulic Oil

- ISO Designation: ISO-L-HL
- ISO Viscosity Grades: 10,15,22,32,46,68,100,150
- Performance Standards: ISO 6743-4: 2015, ISO 11158-HL: 2009, IS 3098: 1983, DIN 51524 Pt.1-HL
- Usage Guidelines: Lubrication of hydraulic systems not requiring any particular anti-wear properties. Splash or injection lubrication of lightly loaded gears, bearings and roller bearings
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%)

Physico-Chemical Properties: Long Life Hydraulic Oil

S.No	Characteristics	Test Method	10	15	22	32	46	68	100	150	
1	Kinematic Viscosity @40°C, cSt, range	IS 1448 P:25	9 to 11	13.5 to 16.5	19.8 to 24.2	28.8 to 35.2	41.4 to 50.6	61.2 to 74.8	90 to 110	135 to 165	
2	Viscosity Index, min	IS 1448 P:56	90								
3	Flash Point, Cleveland (open) cup, °C, min	IS 1448 P:69	135	150	160	180	180	210	210	230	
4	Pour Point, °C, max	IS 1448 P:10	-7	-3	-3	-3	-3	0	0	0	
5	ASTM Colour, max	IS 1448 P:12	4	4	4	4	4	4	4.5	4.5	
6	Total Acidity, mg of KOH/g of oil, max	IS 1448 P:2	0.10	0.10	0.10	0.10	0.10	0.10	0.15	0.15	
7	Inorganic Acidity, mg of KOH/g of oil	IS 1448 P:2	← Nil →								
8	Rust Preventing Characteristics	IS 1448 P:96	← passes test B after 24 hrs →								
9	Copper Strip Corrosion, 100°C, 3 hrs	IS 1448 P:15	← 1a →								
10	Oxidation test, hours to reach acidity of 2mg KOH/g of oil, min	IS 1448 P:106	← 1000 →								750
11	Foaming Characteristics : Foam stability after 10 minutes settling time, foam; ml a) at 24°C, max; b) at 93°C, max; c) at 24°C after cooling down from 93°C, max	IS 1448 P:67	← Nil for all parts a), b) and c) →								
12	Emulsion Characteristics, max	IS 1448 P:91	← 40-37-3(20) →					40-37-3(30)			
13	Seal Compatibility test: Volume Change	IS 3098-A	← ±4% →								

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