



An ISO 9001:2015 Certified Co.

Product Data Sheet

DC Heavy Duty Hydraulic Oil

- ISO Designation: ISO-L-HV
- ISO Viscosity Grades: 10,15,22,32,46,68,100,150
- Performance Standards: ISO 6743-4: 2015, ISO 11158-HV: 2009, IS 11656: 1986, DIN 51524 Pt.3-HVLP, Denison HF-1, HF-2, HF-O; Ford M-6C32; B.F. Goodrich 0152; General Motors LH-04-1, LH-06-1, LH-15-1; Cincinnati Milacron P-68, P-69, P-70; Vickers I-286-S, M-2950-S; Racine, variable volume vane; US Steel 136, 127
- Usage Guidelines: General hydraulic systems which include highly loaded components
- Composition: Base Oil Group II, Additives: Hydraulic Oil AW Package (0.4 to 3%)

Physico-Chemical Properties: Heavy Duty 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	0.5	0.5	0.5	0.5	0.5	0.5	1	1
6	Air Release value, minutes to 0.2% volume air-content at 50°C, max	IS 1448 P:102	5	5	7	7	10	15	20	25
7	Neutralization no., mg of KOH per g of oil, max	IS 1448 P:1	← 1.5 →							
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	← 1 →							
10	Oxidation test, hours to reach acidity of 2mg KOH/g of oil, min	IS 1448 P:106	← 1000 →							
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 11656-A	← ±4% →							
14	Pump wear (Vickers 104C pump test), total ring vane loss in 250 hrs, mg, max	IP 281/77	← 50 →							
15	FZG-Niemann EP test, pass load stage, min	DIN 51354	← 10th →							
16	Filtration time without water, seconds, max	IS 11656-B	← 600 →							
17	Filtration time with 2% water, seconds, max	IS 11656-B	← twice the time without water →							

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