

Commodity : Anti Wire Hydraulic Oil												
Selling Unit : Litre												
S.No.	Parameters	Type	Value 1	Value 2	Value 3	Value 4	Validation	Unit	M	F	G	Demand aggregation
<b>REQUIREMENTS FOR ANTI WIRE HYDRAULIC OIL</b>												
1	Kinematic viscosity at 40°C, cSt	N	61.2 to 74.8						√			1
2	Viscosity index, Min	N	90						√			2
3	Pour point, °C, Max	N	0						√			3
4	Flash point( COC ), °C, Min	N	210						√			4
5	Neutralization number, mg KOH/g of oil, Max	EN	To be reported						√			5
6	Rust preventing characteristics	EN	Shall pass the test B after 24 h						√			6
7	Copper strip corrosion for 3 hours at 100°C	N	Not worse than 1						√			7
8	Foam stability after 10 minutes setting time, foam; At 24°C, ml, Max	N	Nil						√			8
9	Foam stability after 10 minutes setting time, foam; At 93°C, ml, Max	N	Nil						√			9
10	Foam stability after 10 minutes setting time, foam; At 24°C after cooling down from 93°C, ml Max	N	Nil						√			10
11	Emulsion characteristics, Max	N							√			11
12	Air release value, minutes to 0.2 percent volume air content at 50°C, Max	N	15						√			12
13	Oxidation test for 1000 hours: Neutralization number of oil, mg KOH/g, Max	N	2						√			13
14	Oxidation test for 1000 hours: Total sludge in oil and water layer plus those adhering to the catalyst coil or test tube mg, Max	N	100						√			14

15	Oxidation test for 1000 hours: Metal in combined oil, water and sludge Copper, mg, Max	N	50							v			15
16	Oxidation test for 1000 hours: Metal in combined oil, water and sludge: Iron, mg, Max	N	50							v			16
17	Hydrolytic stability : Copper specimen mass loss, mg/cm	N	0.5							v			17
18	Hydrolytic stability : Acidity of water layer, mg. KOH,Max	N	6							v			18
19	Four ball wear test at 20 kg load;Wear scar diameter, mm,Max	N	0.35							v			19
20	Pump wear test ( Vickers 104C, 250 hours test );Total mass loss to rings and vanes; mg,Max	N	50							v			20
21	FZG-Niemann EP test, pass load stage, Min	EN	10th							v			21
22	Thermal stability test at 135°C for 168 hours: Viscosity increase, percent, Max	N	5							v			22
23	Thermal stability test at 135°C for 168 hours: Sludge mg/100 ml, Max	N	25							v			23
24	Thermal stability test at 135°C for 168 hours: Copper rod mass, loss, mg/200 m, Max	N	10							v			24
25	Thermal stability test at 135°C for 168 hours: Copper rod rating, Max	N	2							v			25
26	Filtration time seconds: Without water,Max	N	600							v			26
27	Filtration time seconds: With 2 percent water, Max	EN	Twicw the time without water							v			27
28	Sea1 compatibility test: Volume change,percent, Max	EN	±4							v			28

29	Seal compatibility test: Change in shore hardness, Max	EN	(-1 to +4)							v			29
<b>Packing , Marking and Labelling</b>													
30	The material shall be packed in metal containers or in any other suitable containers as agreed to between the purchaser and the supplier	CH	YES							v			30
31	The containers shall be securely closed and marked with the name of the manufacturer; grade and mass of the material; recognized trademark., if any; and identification III code or otherwise to enable the lot of consignment or manufacture to be traced back	CH	YES							v			31
32	The containers may also be marked with the ISI Certification Mark	CH	YES							v			32
<b>Certification</b>													
33	Conforming to IS:11656 (Latest)	CH	YES							v			33
34	Whether ISI Marked	CH	YES	NO						v	v		34
35	CM/L Number(Must declare if ISI Marked)	CH	YES							v			35
<b>Test Report Details</b>													
36	Availability of Test Report from Central Govt/ State Govt/NABL/ILAC accredited lab(hint: Must be declared)	CH	Yes	No						v	v		36
37	Test Report Number( Must be declared, write NA if Test Report is not available)	CH								v			37
38	Test Report date( Must be declared, write NA if Test Report is not available)	CH								v			38

39	Name of the Lab( Must be declared, write NA if Test Report is not available)	CH							v			39
40	Address of the Lab( Must be declared, write NA if Test Report is not available)	CH							v			40
41	Test Report to be furnished to the Buyer on demand( Must be declared, write NA if Test Report is not available)	CH							v			41