

Commodity : Oil Hydraulic VG-46, VG-68 & VG-150												
Selling Unit : Litre												
S.No.	Parameters	Type	Value 1	Value 2	Value 3	Value 4	Validation	Unit	M	F	G	Demand aggregation
Grade												
	Grade of Oil Hydraulic VG-46, VG-68 & VG-150		VG-46	VG-68	VG_150							
REQUIREMENTS FOR OIL HYDRAULIC VG-46, VG-68 & VG-150												
1	Kinematic viscosity at 40°C,cSt	N	41.1 ≤ N ≤ 50.6	61.2 ≤ N ≤ 74.8	135 ≤ N ≤ 165				√	√		1
2	Viscosity index, Min	N	90						√	√		2
3	Pour point, °C, Max	N	-3	0					√	√		3
4	Neutralization number, mg KOH per g of oil, Max	N	1.5						√	√		4
5	Flash point, Cleveland open cup, °C, Min	N	180	210	230				√	√		5
6	Rust preventing characteristics	EN	Shall pass the test B after 24 hours						√	√		6
7	Foam stability after 10 minutes settling time, At 24°C,ml , Max	N	Nil						√	√		7
8	Foam stability after 10 minutes settling time, At 93°C,ml , Max	N	Nil						√	√		8
9	Foam stability after 10 minutes settling time, At 24°C after cooling down from 93°C, ml , Max	N	Nil						√	√		9
10	<b>oxidation test:</b> Hours to reach acidity of 2 mg KOH/g of oil, Min	N	1000	750					√	√		10
11	Pump wear (Vickers 104C pump test ); Total ring vane loss, in 250 hours, mg, Max	N	100						√	√		11
12	Copper strip corrosion for 3 hours at 100°C	EN	Not worse than No. 1						√	√		12
13	Emulsion characteristics, Max	N	40-37-3 ( 20 )	40-37-3 ( 30 )					√	√		13

14	Air release value, minutes to 0.2 percent volume air content	N	10	15	25					√	√		14
15	Seal compatibility test Volume change	N	± 4 Percent							√	√		15
16	Seal compatibility test Change in shore hardness	N	1 to + 4							√	√		16
17	FZG-Niemann EP test, pass load stage, Min	N	8th							√	√		17
<b>Packing , Marking and Labelling</b>													
18	The material shall be packed in containers of metal or any other suitable material as agreed to between the purchaser and the supplier	CH	YES							√			18
19	The containers shall be securely closed and marked with the name of the manufacturer; name, grade and mass of the material; recognized trade-mark, if any; and identification in code or otherwise to enable the lot of consignment or manufacture to be traced back	CH	YES							√			19
20	The containers may also be marked with Standard Mark	CH	YES							√			20
<b>Certification</b>													
21	Conforming to IS:10522(Latest)	CH	YES							√			21
22	Whether ISI Marked	CH	YES	NO						√	√		22
23	CM/L Number(Must declare if ISI Marked)	CH	YES							√			23
<b>Test Report Details</b>													
24	Availability of Test Report from Central Govt/ State Govt/NABL/ILAC accredited lab(hint: Must be declared	CH	Yes	No						√	√		24

25	Test Report Number( Must be declared, write NA if Test Report is not available)	CH							√			25
26	Test Report date( Must be declared, write NA if Test Report is not available)	CH							√			26
27	Name of the Lab( Must be declared, write NA if Test Report is not available)	CH							√			27
28	Address of the Lab( Must be declared, write NA if Test Report is not available)	CH							√			28
29	Test Report to be furnished to the Buyer on demand( Must be declared, write NA if Test Report is not available)	CH							√			29