

Commodity : Internal Combustion Engine Lubrication Oil														
Selling Unit : Litre														
S.No.	Parameters	Type	Value 1	Value 2	Value 3	Value 4	Validation	Unit	M	F	G	Demand aggregation		
<b>Grade</b>														
	Grade Internal Combustion Engine Lubrication Oil SAE-15W, SAE-20W, SAE-30 & SAE-40		SAE-15W	SAE-20W	SAE-30	SAE-40								
<b>REQUIREMENTS FOR INTERNAL COMBUSTION ENGINE LUBRICATION OIL</b>														
1	Density at 15°C, g/ml	N	To be reported						√	√		1		
2	Flash point COC, °C, Min	N	190	200	215				√	√		2		
3	Pour point °C, Max	N	-24	-21	-6				√	√		3		
4	Kinematic viscosity, percent	EN	±10 of the reported and within viscosity range of the grade						√	√		4		
5	Low temperature cranking viscosity, cP, Max	N	7000 at -20°C	9500 at -15°C	NA				√	√		5		
6	Low temperature pumping, viscosity, cP, Max	N	60000 at -25°C	60000 at -20°C	NA				√	√		6		
7	Viscosity-index, Min	N	95	90					√	√		7		
8	Foam tendency/stability quantity of foam at 24°C, ml/ml, Max	EN	25/Nil						√	√		8		
9	Foam tendency/stability quantity of foam at 93.5°C, ml/ml, Max	EN	150/Nil						√	√		9		
10	Foam tendency/stability quantity of foam at 24°C after the test at 93.5°C, ml/ml, Max	EN	25/Nil						√	√		10		
11	Total base number	EN	Up to 5: -0.5 to + open	Above 5: -10 percent to + open					√	√		11		
12	Total acid number	N	To be reported						√	√		12		
13	Sulphur	EN	±20 percent of the reported value						√	√		13		

14	Sulphated ash	EN	±20 percent of the reported value						√	√		14			
15	Calcium (percent of the reported value)	EN	-10 ≤ N ≤ +20						√	√		15			
16	Barium (percent of the reported value)	EN	-10 ≤ N ≤ +20						√	√		16			
17	Magnesium (percent of the reported value)	EN	-10 ≤ N ≤ +20						√	√		17			
18	Zinc (percent of the reported value)	EN	-10 ≤ N ≤ +20						√	√		18			
19	Phosphorus (percent of the reported value)	EN	-10 ≤ N ≤ +20						√	√		19			
20	Nitrogen (percent of the reported value)	EN	-10 ≤ N ≤ +20						√	√		20			
21	Sodium (percent of the reported value)	EN	-10 ≤ N ≤ +20						√	√		21			
<b>Packing , Marking and Labelling</b>															
22	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						√			22			
23	The container shall be securely closed and marked with the following: a) Indication of the source of manufacture, recognized trade-mark, if any; b) Type and grade; c) Net mass/volume of the material; and d) Identification in code or otherwise to enable the lot of consignment of manufacture to be traced back from	CH	YES						√			23			

24	All markings including batch number or lot of manufacture shall be made on one fiat end when the material is packed in barrels	CH	YES						v			24		
25	Each container may also be marked with the Standard Mark	CH	YES						v			25		
<b>Certification</b>														
26	Conforming to IS:13656(Latest)	CH	YES						v			26		
27	Whether ISI Marked	CH	YES	NO					v	v		27		
28	CM/L Number (Must declare if ISI Marked)	CH	YES						v			28		
<b>Test Report Details</b>														
29	Availability of Test Report from Central Govt/ State Govt/NABL/ILAC accredited lab(hint: Must be declared)	CH	Yes	No					v	v		29		
30	Test Report Number( Must be declared, write NA if Test Report is not available)	CH							v			30		
31	Test Report date( Must be declared, write NA if Test Report is not available)	CH							v			31		
32	Name of the Lab( Must be declared, write NA if Test Report is not available)	CH							v			32		
33	Address of the Lab( Must be declared, write NA if Test Report is not available)	CH							v			33		
34	Test Report to be furnished to the Buyer on demand( Must be declared, write NA if Test Report is not available)	CH							v			34		

