



TEST REPORT

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Report No. : **ED/14-15/1499974951/P0611**

To

METSHIELD CORPORATION

Regus, Level 5

Landmark Building

Ramdaspath

Nagpur - 440 012

13 JUN 2014

1. Nomenclature and Part No.	DIESEL ENGINE OIL (A) SERVO PRIDE XL PLUS 15W40 (B)SERVO PRIDE XL PLUS 15W40 (Premixed with 6.25% of Metshield Compound)
2. Sample Regn. No. /Code No.	P15433/ 1499974951
3. No. /Quantity of Sample	4+1 LTR
4. Sample Supplied by	METSHIELD CORPORATION LTD.
and Reference No.	Nil Dtd. 30/05/2014
5. Name of Manufacturer	FOR OIL : INDIAN OIL CORPORATION LTD., FOR METSHIELD COMPOUND : METSHIELD CORPORATION
Marking	NO MARKS
6. Your Code No.	
7. Date of receipt of sample	30/05/2014
8. Date of Technical clearance	02/06/2014
9. Date of Clearance of Doc.	02/06/2014
10. Specifications	Test As Per PVT/(CIRT-CSD3205)
11. Identification of method used	As described in specification
12. Condition of Item	Good
13. Date of Completion of Test	12/06/2014
14. Test Results	As per Annexure "A" (Enclosed)

Assessment of Test Results

Only test results are reported as per the requirement of the party, as mentioned in Annexure A.

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Test Report	Sample No : 1499974951	Page 1 of 1
Test Component Description: DIESEL ENGINE OIL (A) SERVO PRIDE XL PLUS 15W40 (B) SERVO PRIDE XL PLUS 15W40 (Premixed with 6.25%)		
Size : 4 ltr + 1 Ltr	Marking : NO MARKING	
Test Specification : TEST AS PER PVT/(CIRT-CSD 3205)		

Sr. No.	Test Description	Specified Value	Sample-A (Servo Pride XL Plus 15W40)	Sample-B (Servo Pride XL Plus 15W40 (Premixed with 6.25%))
1.0	Kinematic viscosity at 100°C, Cst, (Cl 3.2 and 4.2.2 of (ii) of (Tb-1))	SAE15W (5.6 Min) SAE40 (12.5-16.3 Min)	15.18	14.17
2.0	Viscosity Index, Min. (Cl.3.2 and 4.2.2. of Tb-1(v))	SAE15W (95 Min) SAE40 (90 Min)	147	140
3.0	Pour point °C, Max. (CL3.2. and 4.2.2 of Tb-1(vi))	SAE15W (-24 °C Max) SAE40 (-6 °C Max)	-16 °C	-16 °C
4.0	Flash point °C, (COC) Min (Cl.3.2 and 4.2.2 of Tb-1(vii))	SAE15W (190 °C Min) SAE40 (215 °C Min)	200 °C	205 °C
5.0	Density at Room Temperature, (Cl.6.3 -(1)i))	To be reported	0.884	0.882
6.0	Total Base Number (Cl.6.3(1)(ix))	To be reported	10.88	11.27
7.0	Total Acid Number (Cl.6.3(1)(x))	To be reported	1.68	1.41
8.0	Sulphated Ash, % by mass (Cl.6.3(1)(xi))	-10 to + 20 percent of the reported value	1.15 %	0.9 %
9.0	Total Sulphur, %by mass, max.(Cl 6.3(1)(xviii))	+/- 20 percent of the reported value.	0.77	0.71
10.0	Four Ball EP Test : Weld Load (ASTM D 2783) Wear scar Diameter (ASTM D 2783)	----- -----	440 kgs 0.38 mm	480 kgs 0.32 mm

ASSESSMENT:	The sample DIESEL ENGINE OIL (A) SERVO PRIDE XL PLUS 15W40 (B) SERVO PRIDE XL PLUS 15W40 (Premixed with 6.25%) is tested as per PVT/ (CIRT-CSD-3205). Only Test results are reported as per party's Request vide Letter with Ref No.: Metshield/CIRT/300514/02 Dt 30.5.2014 from M/s METSHIELD CORPORATION LTD.
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12-6-14
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