

Laboratory **Chittoor Laboratory, Indian Oil Corporation Limited, Yadamari Mandal & Village, Gudiyatham Road, Chittoor, Andhra Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005d**

Certificate Number **TC-6024 (in lieu of T-3543)** Page 1 of 2

Validity **07.08.2017 to 06.08.2019** Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<u>CHEMICAL TESTING</u>				
I.	PETROLEUM AND PRODUCTS			
1.	Automotive Diesel	Cetane Index (Calculated)	IP 380: 2008 ISO 4264: 2013 ASTM D 4737: 2010	40 to 60
2.	Motor Gasoline, Kerosene, Automotive Diesel	Copper Corrosion Test	IP 154: 2000 ISO 2160: 1998 ASTM D 130: 2012 IS 1448 (Part 15): 2011	Rating 1 to 4
3.	Automotive Diesel, Servo 2T supreme	Color (ASTM)	IP 196: 2011 ISO 2049: 1996 ASTM D 1500: 2012 IS 1448 (Part 12): 2013	0.5 Unit to 8 Color Units
4.	Automotive Diesel, Motor Gasoline, Kerosene	Density by Hydrometer	IP 16: 1999 ISO 3675: 1998 ASTM D 1298: 2012b IS 1448 (Part 16): 2014	700 kg/m ³ to 900 kg/m ³
5.	Automotive Diesel, Motor Gasoline, Kerosene	Distillation	IP 123: 2011 ISO 3405: 2011 ASTM D 86: 2016A IS 1448 (Part 18): 2011	Recovery 5% to 98.5% by Volume Temperature 30°C to 370 °C
6.	MS Motor Gasoline	Existent Gum	IP 131: 1999 ISO 6246: 1995 ASTM D 381: 2012 IS 1448 (Part 29): 2011	10 g/m ³ to 50 g/m ³
7.	Automotive Diesel, Kerosene	Flash Point (Abel)	IP 170: 2014 ISO 13236: 2013 IS 1448 (Part 20): 2008	19 °C to 70 °C

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	Automotive Diesel, Servo 2T supreme	Kinematic Viscosity @ 40 °C	IP 71: 1997 ISO 3104: 1997 ASTM D 445: 2017A IS 1448 (Part 25): 2007	1 cSt to 63 cSt
9.	Automotive Diesel	Pour Point	IP 15: 2004 ISO 3016: 1994 ASTM D 97: 2016 IS 1448 (Part 10): 2013	- 21 °C to + 24 °C
10.	Kerosene	Smoke Point	IP 57: 2003 ISO 3014: 1993 ASTM D 1322: 2015e1 IS 1448 (Part 31): 2008	5 mm to 30 mm
11.	Automotive Diesel, Motor Gasoline, Kerosene	Sulfur	IP 336: 2004 ISO 13032: 2012 ISO 20847: 2004 ASTM 4294: 2016	8 mg/kg to 1000 mg/kg
12.	HFHSD, Servo 2T supreme	Flash Point (PMCC)	IS 1448 (PART 21): 2012 IP 34: 2003 ISO 2719: 2012 ASTM D 93: 2016A	40 °C to 250 °C