

**Laboratory**                      **Petroleum Testing and Analysis Laboratory, Naval Aeronautical Quality Assurance Service, Naval Base, Kochi, Kerala**

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

**Certificate Number**        **TC-6843 (in lieu of T-3734)**

**Page 1 of 2**

**Validity**                        **21.12.2017 to 20.12.2019**

**Last Amended on 30.01.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**CHEMICAL TESTING**

I.	<b>PETROLEUM PRODUCTS</b>			
<b>1.</b>	<b>Aviation Fuel (Jet A1/ JP5)</b>	Appearance	NAQAS/PTAL/PROC/APP Issue No.1 Issue Date 16.04.15	Qualitative
		Presence of Free Water using Water detecting capsule	DGCA Method 12-7/91-RD dated 02 Aug 95	Qualitative
		Corrosiveness to copper using Copper Strip Test	IP 154/2000(2013)	Qualitative (Class 1 to 4)
		Water reaction	IP 289/06	Qualitative (Rating 1 to 4)
		Distillation Characteristics at atmospheric pressure	IP 123/11	30°C to 350°C 5 ml to 100 ml
		Existent gum content using jet evaporation method.	IP 540/08(2014)	1 mg/100 ml to 20 mg/100 ml
		Particulate contaminant by laboratory filtration.	IP 423/10	1 mg/l to 10 mg/l
		Density using hydrometer method.	IP 160/99	0.700 g/ml to 0.850 g/ml
		Flash Point using Abel Closed Cup Method	IP 170/14	35°C to 70°C
<b>2.</b>	<b>Lube Oil</b>	Particle Count using Automatic Particle Counter method.	IP 577/13	Qualitative (NAS Class 1 to 12)
		Kinematic Viscosity at 40°C & 100°C	IP 71 Section 1/97	1 cSt to 100 cSt

**Amit Kumar**  
Convenor

**N. Venkateswaran**  
Program Director

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		Flash Point (using Pensky-Martens Closed Cup method)	IP 34/03	60 °C to 350°C
		Density (using hydrometer method)	IP 160/99	0.700 g/ml to 0.950 g/ml
		Viscosity Index from kinematic viscosity at 40°C and 100 °C.	IP 226/04 (Qualitative method)	50 to 250 (Calculation)

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