



# Inspectorate Malta Limited

## Scope of Accreditation

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### ACCREDITATION INFORMATION - TESTING LABORATORY

<b>Accreditation No.</b>	010
<b>Accreditation Certificate No.</b>	010/16
<b>Accredited according to</b>	EN ISO/IEC 17025:2017
<b>Accreditation Scope No.</b>	S010/16
<b>Date of issue of this Scope</b>	Friday, 15 January 2021

### SCOPE OF ACCREDITATION

Issue No: S010/16

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### TESTING LABORATORY

#### Laboratory Locations

Location Details	Activity	Location Code
<b>Address</b> Inspectorate House, Spencer Hill, Marsa MRS1959, Malta	Tests on Petroleum Products	A

#### Site activities performed away from the locations listed above

Location Details	Activity	Location Code
Petroleum Storage Facilities	Sampling, gauging and temperature measurement of petroleum products	B

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National Accreditation Board - Malta (NAB - MALTA)  
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Material/ Product/ Matrix Tested	Type of test, parameter/ component/ characteristic measured, range of measurement, equipment	Standard Specifications/ In-House Methods /Techniques	Loc. code
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### Petroleum Products

Petroleum products	Determination of ester & linolenic acid methyl ester contents	EN 14103:20	A
Petroleum products	Estimation of net and gross heat combustion (calorific value) of hydrocarbon burner and diesel fuels	ASTM D4868-17	A
Petroleum products	Determination of calculated carbon aromaticity index (CCAI)	ISO 8217-17 Clause 6.2	A
Petroleum products	Determination of ash (range 0.001-0.180 mass%)	EN ISO 6245:2001, ASTM D482-19, IP4/05(2012)	A
Petroleum products	Determination of smoke point of kerosene and aviation turbine fuel	IP 598-18, ASTM D1322-19	A
Aviation fuel and aviation gasoline	Freezing point of aviation fuels	ASTM D2386-19, IP 16/15	A
Petroleum products	Determination of aluminium, silicon, vanadium, nickel, iron, calcium, zinc and sodium in residual fuel oil by ashing, fusion and atomic absorption spectrometry	IP 470/05	A

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Petroleum products	Determination of hydrogen sulfide in fuel oils – rapid liquid phase extraction system	IP 570:2015	A	
Petroleum products	Temperature determination	API MPMS Chapter 7, not including sections: 5.1, 5.5, 5.6, 6.3, 7.1, 7.2, 8.1, 8.4, 9.1, 9.2 2001(r2012)	B	
Petroleum products	Manual gauging of petroleum and petroleum products	API MPMS Chapter 3.1A 2013 (2019)	B	
Petroleum products	Determination of organic halogen content – oxidative microcoulometric method	EN 14077:03 / IP 510:04(2015)	A	
Petroleum products	Determination of nitrogen in liquid hydrocarbons, petroleum and petroleum products by boat-inlet chemiluminescence	ASTM D5762-18a	A	
Petroleum products	Determination of trace nitrogen in liquid petroleum hydrocarbons by syringe/inlet oxidative combustion and chemiluminescence detection	ASTM D4629-17 / IP 379:88(2017)	A	
Crude petroleum and petroleum products	Determination of asphaltenes (heptane insolubles)	ASTM D6560-17 / IP 143:04(2016)	A	



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Material/ Product/ Matrix Tested	Type of test, parameter/ component/ characteristic measured, range of measurement, equipment	Standard Specifications/ In-House Methods /Techniques	Loc. code
Petroleum and petroleum products	Determination of cleanliness and compatibility of residual fuels by spot test	ASTM D4740-20	A
Petroleum and petroleum products	Determination of colour (ASTM scale)	ASTM D1500-12(2017), EN ISO 2049:1996, IP 196-97(2014)	A
Petroleum and petroleum products	Determination of flash point using Abel closed-cup method	IP 170:2014	A
Aviation Turbine Fuels	Determination of thermal oxidation stability	IP 323-18, ASTM D3241-20b	A
Petroleum and petroleum products	Determination of colour of petroleum products by the automatic tristimulus method	ASTM D6045-20	A
Petroleum and petroleum products	Corrosiveness to Copper by copper strip test	ASTM D130-19, IP 154-00(2018), EN ISO 2160:1998	A
Petroleum and petroleum products	Gum content of fuels using the jet evaporation method	ASTM D381-19, EN ISO 6246:2017, IP 131:2017	A
Petroleum products	Manual sampling	ASTM D4057-19	B
Petroleum products	Determination of density using oscillating U-tube method	ASTM D4052-18a, EN ISO 12185:1996/Corr 1:2001, IP 365/97(2020)	A

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Petroleum products	Determination of kinematic viscosity and calculation of dynamic viscosity	ASTM D445-19a, EN ISO 3104:2020, IP 71/97	A	
Petroleum and petroleum products	Determination of sulfur content – energy-dispersive X-ray fluorescence spectrometry	ASTM D4294-16e1, IP 336:2004(2014), EN ISO 8754:2003	A	
Petroleum products	Determination of sulfur content of automotive fuels - ultraviolet fluorescence method	ASTM D5453-19a, EN ISO 20846:2019, IP490/19	A	
Petroleum Products	Determination of water by coulometric Karl Fischer titration	ASTM D6304-16e1, EN ISO 12937:2000, IP 438/01(2013)	A	
Petroleum products and bituminous materials	Determination of water using the distillation method (0 to 25% volume)	ASTM D95-13(2018), EN ISO 3733:1999, IP74/2000(2014)	A	
Petroleum products	Determination of flash point using the Pensky-Martens cup method	ASTM D93-20, EN ISO 2719:2016, IP 34/16	A	
Petroleum products	Determination of cloud point of petroleum products and liquid fuels (optical detection stepped cooling method)	ASTM D5771-20, IP 444/09	A	
Petroleum products	Determination of pour point of petroleum products (automatic tilt method)	ASTM D5950-14(2020)	A	



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Petroleum products	Determination of cold filter plugging point temperature (CFPP)	IP309-16, EN 116:2015, ASTM D6371-17a	A		
Petroleum products	Determination of carbon residue (micro method)	ASTM D4530-15(2020), IP398/15, EN ISO 10370:2014	A		
Petroleum products	Determination of distillation characteristics at atmospheric pressure	ASTM D86-20b, EN ISO 3405:2019, IP 123/11(2014)	A		
Petroleum products	Calculation of cetane index of middle-distillate fuels by the four variable equation	EN ISO 4264:2018, ASTM D4737-10(2016), IP 380:19	A		
Petroleum products	Calculated cetane index of distillate fuels	ASTM D976-06(2016)	A		
Petroleum products	Determination of aluminium, silicon, vanadium, nickel, iron, sodium, calcium, zinc and phosphorous in residual fuel oil by ashing, fusion and inductively coupled plasma emission spectrometry	IP 501/05	A		
Petroleum products	Determination of fatty acid methyl ester (FAME) content in middle distillates - infrared spectrometry method	EN 14078:2014, IP 579/14	A		



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### END OF SCOPE

This scope of accreditation may be revised from time to time by NAB-MALTA. To obtain an up-to-date scope contact NAB-MALTA on +356 23952510 ([info@nabmalta.org.mt](mailto:info@nabmalta.org.mt)).



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