



Inspectorate Malta Ltd

Scope of Accreditation

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ACCREDITATION INFORMATION - TESTING LABORATORY

Accreditation No.	010
Accreditation Certificate No.	010/23
Accredited according to	EN ISO/IEC 17025:2017
Accreditation Scope No.	S010/23
Date of issue of this Scope	Tuesday, 19 December 2023

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TESTING LABORATORY

Laboratory Locations

Location Details	Activity	Location Code
Address Inspectorate House, Spencer Hill, Marsa MRS1959, Malta	Tests on Petroleum Products and Related 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

NAB-Malta is a signatory for the EA MLA in testing, calibration and inspection

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ISO/IEC 17025
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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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Liquid Hydrocarbon Fuels

Liquid Hydrocarbon Fuels	Heat of Combustion of Liquid Hydrocarbon Fuels by a Bomb Calorimeter. Gross Calorific Value, and, Net Calorific Value, range unspecified.	ASTM D240:2019	A
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Petroleum Products

Petroleum products	Determination of ester & linolenic acid methyl ester contents	EN 14103:20	A
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Petroleum products	Estimation of net and gross heat combustion (calorific value) of hydrocarbon burner and diesel fuels	ASTM D4868-17	A
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Petroleum products	Determination of calculated carbon aromaticity index (CCAI)	ISO 8217-17 Clause 6.2	A
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Petroleum products	Determination of ash (range 0.001-0.180 mass %)	ASTM D482-19, EN ISO 6245:2001, IP4/05 (2012)	A
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Petroleum products	Determination of smoke point of kerosene and aviation turbine fuel	ASTM D1322-22, IP 598-18	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
Petroleum products	Determination of hydrogen sulfide in fuel oils – rapid liquid phase extraction system	IP 570:2021	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 nitrogen in liquid hydrocarbons, petroleum and petroleum products by boat-inlet chemiluminescence	ASTM D5762-18a	A



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Crude petroleum and petroleum products	Determination of asphaltenes (heptane insolubles)	ASTM D6560-22 / IP 143:04 (2021)	A
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 196/21	A
Petroleum and petroleum products	Determination of flash point using Abel closed-cup method	IP 170/23, ISO 13736:2021	A
Aviation Turbine Fuels	Determination of thermal oxidation stability	ASTM D3241-23a, IP 323-21	A
Petroleum and petroleum products	Determination of colour of petroleum products by the automatic tristimulus method	ASTM D6045-20	A



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Petroleum and petroleum products	Corrosiveness to Copper by copper strip test	ASTM D130-19, EN ISO 2160:1998, IP 154-00 (2018)	A
Petroleum and petroleum products	Gum content of fuels using the jet evaporation method	ASTM D381-22, EN ISO 6246:2017, IP 131:21	A
Aviation fuel and aviation gasoline	Freezing point of aviation fuels	ASTM D2386-19, IP 16/19	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 trace nitrogen in liquid petroleum hydrocarbons by syringe/inlet oxidative combustion and chemiluminescence detection	ASTM D4629-17 / IP 379:88 (2017)	A
Petroleum products	Determination of organic halogen content – oxidative microcoulometric method	EN 14077:03 / IP 510:04 (2022)	A



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Petroleum Products	Determination of kinematic viscosity and calculation of dynamic viscosity	ASTM D445-21, EN ISO 3104:2020, IP 71/20	A
Gasoline & Diesel	Determination of low concentration of sulfur in automotive fuels — Energy-dispersive X-ray fluorescence spectrometric method	ISO 13032-12 (2018)	A
Petroleum products, lubricants & biodiesel	Standard Test Method For Acid Number Of Petroleum Products By Potentiometric Titration	ASTM D664-18e2	A
Petroleum products	Manual sampling	ASTM D4057-22	B
Petroleum products	Determination of density using oscillating U-tube method	ASTM D4052-22, EN ISO 12185:1996/Corr 1:2001, IP 365/97 (2020)	A
Petroleum products	Determination of cold filter plugging point temperature (CFPP)	ASTM D6371-17a, EN 116:2015, IP309-16	A



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Petroleum and petroleum products	Determination of sulfur content – energydispersive X-ray fluorescence spectrometry	ASTM D4294-21, EN ISO 8754:2003, IP 336:2004(2022)	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 D6304-20, EN ISO 12937:2000, IP 438/01 (2013)	A
Petroleum products	Determination of flash point using the Pensky-Martens cup method	ASTM D93-20, EN ISO 2719:2016, IP 34/21	A
Petroleum products	Determination of cloud point of petroleum products and liquid fuels (optical detection stepped cooling method)	ASTM D5771-21, IP 444/21	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 carbon residue (micro method)	ASTM D4530-15 (2020), EN ISO 10370:2014, IP398-15 (2020)	A		
Petroleum products	Determination of distillation characteristics at atmospheric pressure	ASTM D86-23, EN ISO 3405:2019, IP 123/19	A		
Petroleum products	Calculation of cetane index of middle-distillate fuels by the four variable equation	ASTM D4737-21, EN ISO 4264:2018, IP 380:19	A		
Petroleum products	Calculated cetane index of distillate fuels	ASTM D976-21C3:K6	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		

 ISO/IEC 17025 ACCREDITED TESTING N° 010		<h1>Inspectorate Malta Ltd</h1> <h2>Scope of Accreditation</h2>	
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END OF SCOPE

This scope of accreditation may be revised from time to time by NAB-MALTA. The most recent version of this scope may be found from the NAB-MALTA website. Nevertheless, as technical issues may hinder the immediate update of the website, and in case of any difficulty, contact the NAB-MALTA on +356 23952510 or by sending an email to 'info@nabmalta.org.mt'.

