

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 5812 Accredited to ISO/IEC 17025:2017	Paragon Scientific Ltd Issue No: 001 Issue date: 02 October 2026	
	6 Prenton Way North Cheshire Trading Estate Prenton Wirral CH43 3DU	Contact: R. Stevens Tel: +44 (0)151 649 9955 E-Mail: paragon.sales@lgcgroup.com Website: www.lgcstandards.com/Paragon_Scientific

Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PETROLEUM AND PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u>	
Petroleum Products, Base, Blended and Fuel Oils	Pensky-Martens Closed Cup Flash Point 40 °C to 370 °C	ASTM D93 Procedures A and B by Flash Point Standards
Petroleum Products, Base, Blended and Fuel Oils	Cleveland Open Cup Flash Point 79 °C to 400 °C	ASTM D92 by Flash Point Standards
Petroleum Products, Base, Blended and Fuel Oils	Acid Number (AN) Total Acid Number (TAN) 0.1 to 150 mg KOH/g	ASTM D664 In a matrix of Base Oil
Petroleum Products, Base, Blended and Fuel Oils	Base Number (BN) Total Base Number (TBN) 1 to 300 mg KOH/g	ASTM D2896 In a matrix of Base Oil
Petroleum Products, Base, Blended and Fuel Oils	Sulfur content <0.1 ug/g m/m to 5.00% m/m	ASTM D2622 mass by mass (m/m)
Petroleum Products, Base, Blended and Fuel Oils	pH of Buffer Solutions 4 pH to 10 pH units at temperatures of 20 °C and 25 °C.	ASTM E70
Petroleum Products, Base, Blended and Fuel Oils	Smoke Point Reference Fuel Blends 2,2,4-Trimethylpentane/Toluene mixtures from 60 % to 100 % v/v 2,2,4-trimethylpentane	ASTM D1322 and IP 598 Equivalent to a smoke point of 14.7 mm to 42.8 mm
Petroleum Products, Base, Blended, Fuel Oils and Aqueous blends	Electrical Conductivity of Aqueous solutions 2 µS/cm to 500,000 µS/cm	



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PETROLEUM AND PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	
Petroleum Products, Base, Blended and Fuel Oils	CIE tristimulus values Wavelength 360 nm to 830 nm Y, x and y	ASTM D308 By Mathematical derivation
Petroleum Products, Base, Blended and Fuel Oils	ASTM Colour <0.5 to 8	ASTM D6045 By Mathematical derivation
Petroleum Products, Base, Blended and Fuel Oils	Saybolt Colour -16 to +30	ASTM D6045 by Mathematical derivation
Petroleum Products, Base, Blended and Fuel Oils	Gardiner Colour 1 to 18	ASTM D6166 by Mathematical derivation
Petroleum Products, Base, Blended and Fuel Oils	Platinum-Cobalt Colour 0 to 500	Mathematical derivation based on CIE tristimulus values
Petroleum Products, Base, Blended and Fuel Oils	Total Vapour Pressure 7 kPa to 130 kPa	ASTM D5191 by inhouse method
Petroleum Products, Base, Blended and Fuel Oils	Dry Vapour Equivalent 7 kPa to 130 kPa	ASTM D5191 by inhouse method
Petroleum Products, Base, Blended and Fuel Oils	Iodine Value 0 to 200 g per 100 g of material	BS EN 14111 and BS EN ISO 3961 By inhouse method
Petroleum Products, Base, Blended and Fuel Oils	Ester content in FAME 90% m/m to 100% m/m	BS EN 14103 by inhouse method
Petroleum Products, Base, Blended and Fuel Oils	Linolenic acid methyl ester content in FAME 1% m/m to 15% m/m	BS EN 14103 by inhouse method
Petroleum Products, Base, Blended and Fuel Oils	Osmolality 0 to 2000 mOsm/kg of salt solution in H ₂ O	By primary method at Paragon using a Osmometer



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<u>Flexible Scope</u> The laboratory is accredited to ISO/IEC17025:2017 for testing activities in accordance with the standards highlighted in the schedule. This may also include new versions of existing accredited standard test methods to be introduced in accordance with documented in-house procedure QA018, providing that: (1) The method or standard does not introduce new principles of measurement. (2) The method or standard does not require measurements to be made outside the parametric boundaries defined within the standard specifications already accredited and detailed within this Schedule of Accreditation. Information about flexible scopes of accreditation is available in UKAS document GEN 4 and EA document EA-2/15.		
END		