


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2017</p>	SGS United Kingdom Limited Issue No: 032 Issue date: 25 June 2020	
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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
PETROLEUMS and PETROLEUM PRODUCTS including jet fuel	<u>Chemical and Physical Tests</u> Acid Numbers: Total acid number Strong acid number Ash Asphaltenes Burning Test: 24 hrs (Char value) Carbon, Hydrogen and Nitrogen	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented in house procedure OGC-GEN-1QP-018 # IP Equivalent ISO Standard ASTM D664 Potentiometric Titration IP 4 ASTM D482 # ISO 6245 IP 143 ASTM D6560 IP 10 ASTM D5291



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PETROLEUMS and PETROLEUM PRODUCTS including jet fuel (cont'd)	<u>Chemical and Physical Tests</u> (cont'd) Cetane Index Cetane number of diesel (ULSD) Cloud Point Cold Filter Plugging Point Colour: Saybolt Chronometer method Colour Conductivity, electrical Corrosion, Copper Coumarin content of kerosene Density and relative density	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented in house procedure OGC-GEN-1QP-018 # IP Equivalent ISO Standard by calculation, provided that Density and Distillations are known IP 380 ASTM D4737 # ISO 4264 ASTM D613/03b IP 41/2000 IP 219 # ISO 3015 ASTM D2500 IP 309 ASTM D156 ASTM D6045 Lovibond Tintometer IP 274 ASTM D2624 Copper strip tarnish test IP 154 ASTM D130 # ISO 2160:1998 IP 374(B) IP 365 (Digital density meter) # ISO 12185 ASTM D4052 (Digital density meter) ASTM D5002 (Digital density meter)



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PETROLEUMS and PETROLEUM PRODUCTS including jet fuel (cont'd)	<u>Chemical and Physical Tests</u> (cont'd) Distillation Doctor test Filter blocking tendency Flash point Freezing point of aviation fuels Manual Method Freezing point of aviation fuels Automatic Laser Gum-existent Gum existent – aviation fuel Heat of combustion of liquid hydrocarbon	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented in house procedure OGC-GEN-1QP-018 # IP Equivalent ISO Standard IP 123 # ISO 3405 ASTM D86 IP 30 IP 387 Abel closed cup IP 170 # ISO 13736 Pensky-Martens closed cup tester IP 34 ASTM D93 # ISO 2719 IP 523 # ISO 3679 Rapid equilibrium closed cup method IP 16 ASTM D2386 IP 529 IP 131 ASTM D381 # ISO 6246 Jet evaporation IP 540 ASTM D240



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PETROLEUMS and PETROLEUM PRODUCTS including jet fuel (cont'd)	<u>Chemical and Physical Tests</u> (cont'd) Hydrocarbon types: - olefins, non-aromatic Jet Fuel Thermal Oxidation Testing (JFTOT) Lubricity of diesel (ULSD) Mercaptan Sulphur Metals in Fuel Oils: Al, Si, V, Ni, Fe, Ca, Zn and Na Aluminium and Silicon content Micro Carbon Residue Test (MCRT) Naphthalene Hydrocarbons Octane Number Research method - knock characteristics of motor fuels Motor method - knock characteristics of motor and aviation fuels	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented in house procedure OGC-GEN-1QP-018 # IP Equivalent ISO Standard IP 156 ASTM D1319 # ISO 3837 Fluorescent Indicator Absorption IP 323 ASTM D3241 IP 450 Potentiometric method IP 342 ASTM D3227 # ISO 3012 IP 470 IP 377 # ISO 10478 IP 398 ASTM D4530 ASTM D1840 IP 237/87 ASTM D2699/01 IP 236/87 ASTM D2700/01



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PETROLEUMS and PETROLEUM PRODUCTS including jet fuel (cont'd)	<u>Chemical and Physical Tests</u> (cont'd) Oxidation Stability of: - Gasoline Phosphorus in Gasoline Pour point - of crude oils Quinizarin in gas oil Sediment in crude oils Smoke point Sulphur content Sulphur content by Ultraviolet Fluorescence Thermal and chemical ageing of residual fuel oils Total acidity in aviation turbine fuel	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented in house procedure OGC-GEN-1QP-018 # IP Equivalent ISO Standard Induction Period method IP 40 ASTM D525 # ISO 7536 ASTM D3231 IP 15 ASTM D97 # ISO 3016 ASTM D5853 IP 298 ASTM D4807 by membrane filtration IP 57 ASTM D1322 # ISO 3014 IP 336 # ISO 8754 ASTM D5453 IP 490 # ISO 20846 IP 390 # ISO 10307-2 IP354 ASTM D3242



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PETROLEUMS and PETROLEUM PRODUCTS including jet fuel (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented in house procedure OGC-GEN-1QP-018
		# IP Equivalent ISO Standard
	Total Sediment in residual fuel oils	IP 375 ASTM D4870 # ISO 10307-1
	Vapour pressure	ASTM D5191
	Viscosity Index	IP 226 ASTM D2270 # ISO 2909
	Viscosity, Kinematic	IP 71/Section 1 ASTM D445 # ISO 3014
	Water content	Distillation using Dean & Stark equipment IP 74 ASTM D95 # ISO 3733
	Water in Crude Petroleum	Coulometric using Karl Fischer Titration IP 386 ASTM D4928 # ISO 10337
	Water in petroleum products	IP 438 Coulometric Karl Fischer titration method
	Water reaction of Aviation Fuels	IP 289 ASTM D1094
Water Separometer Index, Modified (WSIM)	ASTM D3948	



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FAT AND OIL DERIVATIVES - Fatty Acid Methyl Esters (FAME)	<u>Chemical and Physical Tests</u> (cont'd) Oxidation stability of FAME and blends with diesel fuel Determination of FAME in middle distillates by IR	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented in house procedure OGC-GEN-1QP-018 # IP Equivalent ISO Standard EN 15751 EN 14078
END		