

Schedule of Accreditation  
Issued to  
for Testing Laboratory According to ISO/IEC 17025  
Quality Control Sector Laboratories  
General Directorate for Quality Control and Research  
Cairo Oil Refining Company  
Sharekat El Petrol Street - Mostorod  
Kalubiya – Egypt

CAB No.: 212002B 1<sup>st</sup> accreditation Date : February 8, 2013 Issue No(2).: August 17, 2017 Revision No. (1): January 24, 20198 Valid to : October 31, 2020

Materials / Product Tested	Types of test / Properties Measured / Range of Measurement	Standard Specifications/Techniques used	
Aviation Fuel (Jet A -1 fuel )	Determination of freezing point	ASTM D-7153:2015	Automatic Freezing Point Apparatus Manufacturer ISL ,France Model V22601 , S.N 5570
Petroleum Products <ul style="list-style-type: none"><li>Naphtha Fuel</li><li>Gasoline 80,90,92 Octane</li><li>Jet A -1 Fuel</li><li>Gas Oil</li><li>Summer Diesel Fuel</li><li>Fuel Oil</li></ul>	Determination of density & relative density	ASTM D-4052:2016	Digital Density Meter Manufacturer Anton Paar , Austria Model DMA 4500M S.N 81966882
Petroleum Products <ul style="list-style-type: none"><li>Jet A -1 Fuel</li><li>Gas Oil</li></ul>	Determination of color	ASTM D 6045:2012	Automatic Tristimulus Manufacturer Lovibond , UK Model PFX 880/P S.N 12170

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Liquid Petroleum Products	Determination of corrosiveness to copper	ASTM D 130:2012	Copper Corrosion Bath Model K25319 , S.N R61131060
	Determination of kinematic viscosity	ASTM D 445:2015a	Kinematic Viscometers Model Routine , S.N1348
Petroleum fractions below 315 <sup>0</sup> C	Determination of hydrocarbon types	ASTM D 1319:2015	Adsorption Columns Manufacturer Petrotest
Kerosine and aviation turbine fuel	Determination of smoke point	ASTM D 1322:2015	Smoke Point Lamp Manufacturer Seta, Model:SP10 S.N 172
Petroleum products having flash point between - 30 <sup>0</sup> C to 70 <sup>0</sup> C	Determination of flash point	IP 170:2014	Abel Flash Point Apparatus Model 34000-0U S.N 1028504

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Aviation turbine fuels	Determination Existent gum content of aviation turbine fuel Jet Evaporation method	IP 540/08 (2014)	Gum Content Apparatus ( Solid Block Bath ) Koelher , Model K33800 S.N B60684089
Aviation and distillate fuels with and without a static dissipator additive	Determination of Electrical Conductivity of Aviation and Distillate Fuels.	ASTM D2624 – 15	Electrical Conductivity Apparatus , Emcee , Model 1153 S.N 112067
Aviation turbine fuels	Determination of Thermal Oxidation Stability of Aviation Turbine	ASTM D3241 – 2016	JFTOT Apparatus , Alcor , USA Model J/230 Mark III S.N 10C/0134
	Determination of Particulate Contamination in Aviation Fuels by Laboratory Filtration.	ASTM D5452 – 12	Particulate Contamination Apparatus Petrotest , Code # 68 .
Crude Oils and Residual Fuels	Determination of Nickel, Vanadium, and Iron	ASTM D 5708 : 2015 TEST METHOD A—ICP	Inductive Coupled Plasma Perkin Elmer , Model Optima7300V S.N B077C0033101
Petroleum product	Determination of sulfur	ASTM D4294-16	Sulfur Appartus Model :Epsilon 1 S.N:DY696

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Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements (%)	Standard Specifications / Techniques Used	
Used and Unused Lubricating Oils and Base Oils	Determination of Multielement using Inductively Coupled Plasma		ASTM D 5185:201  Inductive Coupled Plasma Model Optima7300V S.N B077C0033101
	Element	LOQ( ppm)	
	Ag	< 0.05	
	Be	< 0.01	
	CO	< 0.03	
	Mg	< 0.02	
	Ni	< 0.02	
	Sc	< 0.04	
	Ti	< 0.03	
	Zn	< 0.02	
	Al	< 0.02	
	Ba	< 0.02	
	Cd	< 0.01	
	Cu	< 0.06	
	Pb	< 0.02	
	Sn	< 0.02	
	Fe	< 0.02	
	Li	< 0.02	
	Na	< 0.5	
Mn	< 0.02		
K	< 0.11		