



هيئة المواصفات والمقاييس
Emirates Authority For Standardization & Metrology
E S M A
...TOWARDS EXCELLENCE



CERTIFICATE OF ACCREDITATION

EMIRATES NATIONAL ACCREDITATION SYSTEM

Has Accredited

GEO-CHEM MIDDLE EAST

As Testing Laboratory

NAL 049

Located in FUJAIRAH FREE ZONE 1, FUJAIRAH, UAE

The Laboratory complies with the requirements of the Standard **ISO/IEC 17025:2005**
'General Requirements for the Competence of Testing and Calibration Laboratories' & the Relevant ILAC Guidelines
for the tests specified in the attached Accreditation Scope. The accreditation requires regular surveillance.
The organization itself is responsible for the results of performed tests

Date of Initial Accreditation: 14/03/2012

Valid Until: 13/03/2015

H.E. Dr. Rashid Ahmed Bin Fahad
Minister of Environment and Water
Chairman of Board of Directors at ESMA





Accreditation Document
GEO-CHEM MIDDLE EAST, NAL 049
Testing Lab, FUJAIRAH FREE ZONE 1, FUJAIRAH, UAE

SCOPE OF ACCREDITATION			
#	Test Material /Matrix	Description of the Test	Tested Method/Standard
1	Distillate Marine Fuels (Diesel)	Kinematic viscosity @ 40° C	ISO 3104/ASTM D 445/ IP71
		Density @ 15° C	ISO 3675/ ASTM D 1298/ IP160
		Density @ 15° C	ISO 12185/ ASTM D 4052/ IP 365
		Cetane Index	ISO 4264/ ASTM D 4737/ IP 380
		Sulfur	ISO 8754/ ASTM D 4294/ IP336
		Flash Point	ISO 2719/ ASTM D93/ IP34
		Hydrogen Sulphide	IP 570/ ASTM D 7621
		Acid Number	ASTM D 664/IP 177
		Total Sediment by Hot filtration	ISO 10307-1/ ASTM D 4870/ IP375
		Carbon Residue micro method on the 10 % volume distillate residue	ISO 10370/ ASTM D 4530/ IP398
		Carbon Residue micro method	ISO 10370/ ASTM D 4530/ IP398
		Pour Point	ISO 3016/ ASTM D 97/ IP15
		Appearance	Visual
		Water	ISO 3733/ ASTM D 95/ IP74
		Ash	ISO 6245/ ASTM D482/ IP4
2	Residual Marine Fuels (Fuel Oil #6)	Kinematic viscosity @ 50° C	ISO 3104/ ASTM D 445/ IP71
		Kinematic Viscosity@100°C	ISO 3104/ ASTM D 445/ IP71
		Density @ 15° C	ISO 3675/ ASTM D 1298/ IP 160
		Density @ 15° C	ISO 12185/ ASTM D 4052/ IP 365
		CCAI	Calculation



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SCOPE OF ACCREDITATION			
#	Test Material /Matrix	Description of the Test	Tested Method/Standard

Residual Marine Fuels (Fuel Oil #6)	Sulfur	ISO 8754/ ASTM D 4294/ IP336
	Flash Point	ISO 2719/ ASTM D 93/ IP34
	Hydrogen Sulphide	IP 570/ ASTM D7261
	Acid Number	ASTM D 664/ IP177
	Total Sediment Aged	ISO 10307-2/ ASTM D 4870A & B/ IP 390A&B
	Carbon residue : Micro method	ISO 10370/ ASTM D 4530/ IP 398
	Pour Point	ISO 3016/ ASTM D 97/ IP 15
	Water	ISO 3733/ ASTM D 95/ IP 74
	ASH	ISO 6245/ ASTM D482/ IP4
	Vanadium	IP 470
	Sodium	
	Aluminium	
	Silicon	
	Calcium	
Zinc		

END



Program Manager's signature