



Certificate of Accreditation

This is to certify that

Quality Inspection Center

Zinder Refinery Company Limited

Ollelewa Local Government, Tanout Road RN 11, Zinder, Republic of Niger

Has been assessed by the Nigeria National Accreditation Service and meets the requirements of the International Standard

ISO/IEC 17025:2017

with demonstrated technical competence in the field of

Testing

for the specific services listed on the approved Scope of Accreditation.

On behalf of the Nigeria National Accreditation Service:



Issue date: **March 04, 2019**
Validity through: **March 03, 2021**

Scope of Accreditation

Petroleum Products Testing Laboratory

Quality Inspection Center

Zinder Refinery Company Limited

Ollelewa Local Government, Tanout Road RN 11, Zinder, Republic of Niger

Schedule NO.:T0011

Issue No. 1: 04 03, 2019

Valid to : 03 03, 2021

Materials/ Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications / Techniques Used	
Gasoline	Density	ASTM D4052	Automatic densitometer Model : DMA4100M S/No : 80846604
	Distillation	ASTM D86	Petroleum products distillation tester Model : JSR1009B S/No : 2011030208
	Octane number	ASTM D2699	Octane machine Model : F1/F2 S/No : 5283701083
	Sulfur content	ASTM D5453 or ASTM D7039	Total sulfur and total nitrogen analyzer Model : EA5000 S/No : N7-170K X-ray fluorescence sulfur determination Model : SINDIE-7039XR S/No : BT101119001
	Lead content	ASTM D3237	Atomic absorption spectrophotometer Model : AAnalyst700 S/No : 700S11030102
	Oxidation stability	ASTM D525	Automatic oxidation stability of gasoline analyzer Model : JSR0106 S/No : 2011030254

Materials/ Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications / Techniques Used	
	Existent Gum content	ASTM D381	Vehicles with gasoline and aviation fuel gum tester Model : JH010403 S/No : 110420 Balance Model : MSA225S-100-DA S/No : 26202794
	Copper strip corrosion	ASTM D130	Petroleum products copper corrosion detector Model : JH011401 S/No : 110423
	Vapor pressure	ASTM D5191	Automatic vapor pressure Model : 81000-2U S/No : 1014919
	Doctor test or mercaptan	ASTM D3227 or ASTM D4952	Computer mercaptan sulfur detector Model : ZSCS-2001 S/No : 712
	Sampling	ASTM D4057	
Diesel	Density	ASTM D4052	Automatic densitometer Model : DMA4100M S/No : 80846604
	Distillation	ASTM D86	Petroleum products distillation tester Model : JSR1009B S/No : 2011030207
	Flash point	ASTM D93	Petroleum products flash point tester Model : JH011600 S/No : 110415
	Water content	ASTM D95	Petroleum products Moisture Analyzer Model : JH020102 S/No : 080911 Balance Model : MSA5201S-000-D0 S/No : 26202682
	Kinematic viscosity (37.8°C)	ASTM D445	Kinematic viscosity measuring device Model : JSR1104 S/No : 2011030266
	Ash content	ASTM D482	Petroleum products, ash analyzer Model : JH021002 S/No : 110416

Materials/ Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications / Techniques Used
		Balance Model : MSA225S-100-DA S/No : 26202794
	Sulfur content	ASTM D5453 Total sulfur and total nitrogen analyzer Model : EA5000 S/No : N7-170K
	Copper strip corrosion	ASTM D130 Petroleum products copper corrosion detector Model : JH011401 S/No : 110423
	Cetane index	ASTM D976 Petroleum products distillation tester Model : JSR1009B S/No : 2011030207 Automatic densitometer Model : DMA4100M S/No : 80846604
	Cloud point	ASTM D2500 Petroleum products, pour point, cloud point analyzer Model : JSQ0806 S/No : 2011030259
	10% Distillation carbon residue	ASTM D4530 Petroleum products distillation tester Model : JSR1009B S/No : 2011030207 Carbon residue of petroleum products, auto-analyzer Model : JH020711 S/No : 110426
	Colority	ASTM D1500 Petroleum products chroma tester Model : K13290 S/No : B072010048
	Acid number	ASTM D974 Determination of acidity of instrument Model : JH010901 S/No : 081098
	Sampling	ASTM D4057
LPG	Density	ASTM D2598
	Vapor pressure (37.8°C)	ASTM D2598 or ASTM D1267

Materials/ Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications / Techniques Used	
	Copper strip corrosion	ASTM D1838	Liquefied petroleum gas copper corrosion tester Model : JSY0301 S/No : 2011030277
	Total sulphur	ASTM D6667	Total sulfur and total nitrogen analyzer Model : EA5000 S/No : N7-170K
	Composition	ASTM D2163	Agilent -1 (liquefied petroleum gas) Model : 7820A S/No : CN11092011
	Residual matter	ASTM D2158	Residues of LPG tester Model : JSY0402 S/No : 2011030278
	Sampling	ASTM D1265	