

CERTIFICATE OF ACCREDITATION

SGS MADAGASCAR SARL - OIL & GAS TESTING LABORATORY

Incorporated under the Register of Commerce of Antananarivo

Facility Accreditation Number: TEST-5 0079

is a SADCAS accredited Testing Laboratory
provided that all SADCAS conditions are complied with

This certificate is valid as per the scope stated in the accompanying schedule of accreditation,
Annexure "A", bearing the above accreditation number for

CHEMICAL ANALYSIS

The facility is accredited in accordance with the recognized International Standard

ISO/IEC 17025:2017

*The accreditation demonstrates technical competency for a defined scope and the operation
of a laboratory quality management system*

*SADCAS is a subsidiarity organization of SADC. A memorandum of understanding between SADC and
SADCAS serves as the basis for the recognition of SADCAS by SADC Member States
as a multi-economy accreditation body*

Eve Christine Gadzikwa
SADCAS Chief Executive Officer

Effective Date (Issue No: 1): 05 May 2023

Certificate Expires: 04 May 2028

ANNEXURE A

SCHEDULE OF ACCREDITATION

CHEMICAL ANALYSIS

Laboratory Accreditation Number: **TEST-5 0079 (ISO/IEC 17025:2017)**

<p><u>Permanent Address of Laboratory</u> SGS Madagascar SARL - Oil & Gas Testing Immeuble Ariane 5A Enceinte Galaxy - Andraharo Antananarivo Madagascar</p> <p><u>Postal Address</u> BP 1554 Antananarivo Madagascar</p> <p><u>Tel</u> : +261 202 356 410 <u>Cell</u> : +261320546150 <u>Email</u> : Harilalaina.Robenarimangason@sgs.com</p>		<p><u>Technical Signatories</u> :</p> <p>Mr R Andoniaina (All methods) Mr R H Michelin (All methods) Mr R N Nehemie (All methods)</p> <p><u>Nominated Representative</u> : Mr H Robenarimangason</p> <p><u>Issue No</u> : 01 <u>Date of Issue</u> : 05 May 2023 <u>Expiry Date</u> : 04 May 2028</p>
MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/ TECHNIQUES USED
SP95, GO, PL, Jet, A1	Distillation	ASTM D86-2020b – W11/TT11
SP95, GO, PL, Jet A1, FO	Density	ASTM D4052-2018a – W13/ TT13
GO, FO	Flash Point Water Content Viscosity	ASTM D93-2020 – W14/ TT14 ASTM D95-2013 Re2018 – W6/ TT6 ASTM D445-2021 - W5/ TT5
PL, Jet A1	Flash Point Smoke Point	EN ISO 13736-2021 – W10/ TT10 ASTM D1322-2019 – W15/ TT15
Jet A1	Microsep Gum Existent Freezing Point FAME	ASTM D3948-2020 – W9/ TT9 ASTM 0381-2019 – W16/ TT16 ASTM D2386-2019 – W3/ TT3 IP583-15 ASTM D7797-2018 – W17/ T17
	Electrical Conductivity	ASTM D 2624-2021 – W9/ TT9
Jet A1, GO	Colour	ASTM D1500-2012Rév2017 – W1/ TT1
SP95	Vapor pressure reid	ASTM D323-2020a – W8/TT8

ANNEXURE A

Laboratory Accreditation No: TEST-5 0079 (ISO/IEC 17025:2017)

Issue No: 01

Date of Issue: 05 May 2023

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MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
SP95, Jet A1	Corrosiveness to Copper	ASTM 130-2019 – W18/TT18
GO, FO, Jet A1	Total Sulphur	ASTM D4294-2021 – W4/TT4
GO	Cetane Index	D4737-2021 – W2/TT2
FO	Cleanliness and compatibility	ASTM D4740-2020 – W12/ TT12

Original date of accreditation: 05 May 2023

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Pinkie Malebe
SADCAS Technical Manager