



DANGOTE

DANGOTE PETROLEUM REFINERY & PETROCHEMICALS (FZE), IBEJU-LEKKI, LAGOS STATE

QA/QC LABORATORY

NMDPRA Accreditation Ref: - NMDPRA/HSEC/BP025/2024/001

AVIATION TURBINE FUEL KEROSENE TYPE (JET A-1)

CERTIFICATE OF QUALITY

(DEF STAN 91-091, ISSUE 18)

Sample Name : Aviation Turbine Fuel (Jet-A1)
 Sample Type : UML Composite
 Tank No. : 732-TT-3203 C
 Certificate No. : DPRP/QC/Jet A-1/044 /2026
 Batch No : Jet A-1/DPRP/3203C/081/2026

Date of Sampling : 17.02.26
 Date of Sample receipt : 17.02.26
 Date of Certification : 17.02.26
 Date of Tank Cleaning : 20.04.24
 Certified Quantity : 8778 M³

Sr. No.	Parameter	UoM	Test Method	Specification	Test Result
1	Appearance				
1.1	Visual Appearance		Visual	Clear, bright, and visually free from solid matter and undissolved water at ambient fuel temperature	Clear, bright, and visually free from solid matter and undissolved water at ambient fuel temperature
1.2	Colour	Number	ASTMD156	Report	+21
1.3	Particulate contamination, at point of manufacture OR	mg/l	ASTM D5452	1.0 max	N/A
1.4	Particulate, at point of manufacture, cumulative channel particle counts	Individual channel counts & ISO Code	IP 565	Channel count / ISO Code	
1.4.1	≥ 4 µm(c)			Report/Max. 19	1274.9/17
1.4.2	≥ 6 µm(c)			Report/Max. 17	290.2/15
1.4.3	≥ 14 µm(c)			Report/Max. 14	18.2/11
1.4.4	≥ 21 µm(c)			Report	2.0/8
1.4.5	≥ 25 µm(c)			Report	0.5/6
1.4.6	≥ 30 µm(c)			Report/Max .13	0.1/4
2	Composition				
2.1	Total Acidity	mg KOH/gm	ASTM D3242	Max. 0.015	0.006
2.2	Aromatic Hydrocarbon Types				
2.2.1	Aromatics OR	%V/V	ASTM D1319	Max. 25.0	N/A
2.2.2	Total Aromatics	%V/V	ASTM D6379	Max. 26.5	12.7
2.3	Total Sulphur	%m/m	IP 336 /D4294	Max. 0.30	0.013
2.4	Mercaptan Sulphur OR	%m/m	ASTM D3227	Max. 0.0030	0.0005
2.5	Doctor Test		IP 30	Doctor Negative	N/A





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2.6	Blending Components, at point of manufacture				
2.6.1	Non-Hydro processed Components	%V/V		Report	52.42
2.6.2	Severely Hydro processed Components	%V/V		Report	47.58
2.6.3	Synthetic Components	%V/V		Report	0
3	Volatility				
3.1	Distillation				
3.1.1	Initial boiling point	°C	IP 123 / D86	Report	156.9
3.1.2	10% Recovery	°C		Max. 205.0	183.4
3.1.3	50% Recovery	°C		Report	204.7
3.1.4	90% Recovery	°C		Report	228.9
3.1.5	End point	°C		Max. 300.0	243.4
3.1.6	Residue	%V/V		Max. 1.5	0.9
3.1.7	Loss	%V/V		Max. 1.5	0.8
3.2	Flash point	°C	IP 170	Min. 38.0	48.0
3.3	Density at 15°C	Kg/m ³	ASTM D4052	Min. 775.0 Max. 840.0	819.0
4	Fluidity				
4.1	Freezing point	°C	ASTM D5972	Max. minus 47.0	Minus 55.3
4.2	Viscosity at minus 20°C	mm ² /S	ASTM D445	Max. 8.000	4.676
5	Combustion				
5.1	Smoke point	mm	ASTM D1322	Min. 25.0	N/A
5.2	Smoke point	mm	ASTM D1322	Min. 18.0	22
	Naphthalene	%V/V	ASTM D1840	Max. 3.00	0.99
5.3	Specific energy	MJ/kg	ASTM D3338	Min. 42.80	43.156
6	Corrosion				
6.1	Copper strip	Class	ASTM D130	Max. 1	1a
7	Thermal stability				
7.1	Test temperature tube rating	°C	ASTM D3241	Min. 260	260
7.2	One of the following requirements shall be met				
	(1) Annex B VTR			Less than 3. No peacock (P) OR Abnormal (A)	Less than 1. No Peacock or abnormal colour
	(2) Annex C ITR, Annex D ETR or Annexure E MWETR, average over area of 2.5 mm ²	nm		Max. 85	N/A
7.3	Pressure Differential	mm Hg		Max. 25	0





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8	Contaminants				
8.1	Existent Gum	mg/100ml	IP 540	Max. 7	2.0
9	Water separation Characteristics				
9.1	Microseparometer, at point of manufacture		ASTM D3948		
9.1.1	MSEP without SDA	Rating		Min. 85	N/A
9.1.2	MSEP with SDA	Rating		Min. 70	90
10	Conductivity				
10.1	Electrical conductivity	pS/m	ASTM D2624	Min. 50 Max. 600	290 @ 23.0 Deg C
11	Lubricity				
11.1	Wear scar diameter	mm	ASTM D5001	Max. 0.85	0.60
12	Fatty Acid Methyl Ester	mg/kg	ASTM D 7797	Max 50	<10

N/A: Not Applicable

The statement of additives doped:

- Static Dissipator Additive (AvGuard SDA) RDE/A/DSFA/001, 3.0 mg/l max : 1.34 mg/L
- Antioxidant DEFSTAN RDE/A/609 (17.0 min to 24.0 max mg/L)
dopped in severely hydro processed component : 19.43 mg/L
- Metal Deactivator Additive (MDA) mg/l max 2.0 : Nil
- Lubricity Additive (LA) : Nil
- Drag Reducing Agent (DRA) : Nil
- Fuel System Icing Inhibitor : Nil
- Leak Detection Additive : Nil

Note:

- Results relate to the item tested only.
- Sampling not done by laboratory.
- Test report shall not be reproduced except in full without written permission of the laboratory.
- It is certified that the samples have been tested using the test methods stated & that the batch represented by the samples confirm with Def stan 91 – 091 issue 18 & AFQRJOS check list issue 36.
- This Release Certificate certifies that the product in this tank is released in accordance with EI / JIG Standard 1530.



Shantilal Modha
Authorised Signatory
For and on behalf of DPRP
SHANTILAL MODHA (DGM-QA)

END OF REPORT

(Batch No. Jet A-1/DPRP/3203C/081/2026)

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