

SOLANA BIOFUELS LIMITED  
(Formerly Southern Online Bio Technologies Limited),  
PLOT No.45/A, APIIC-SEZ, DUPPITURU  
ATCHUTAPURAM - 531011, ANAKAPALLI DISTRICT, ANDHRA PRADESH, INDIA  
GSTIN 37AAECS7574E3Z0  
Mr. Srinivas Rao Mandava



Job No : 18404/00002661/2025  
Report date : 11.03.2025  
Installation : Solana Biofuels Ltd, Visakhapatnam, India,  
Shore Tank No : C-2  
Product : BIODIESEL

## Certificate of Quantity

The undersigned Independent Saybolt Surveyor herewith declares that the quantity of product loaded amounts to:

KL@ Nat	247.180
KL@15°C	243.596
Metric Tons air	213.024
Barrels 60°F	--
Long Tons	--

These quantities have been determined by measurement of shore tanks.

DL Dens.15°C Vac	0.8756
B/L Density 20°C	--
BiL Api 60°F	--
BA_ RD 60160°F	--

### Criteria used

Liters 15°C to Cu m 15°C	ASTM Table 1	0.001
Liters 15°C (1000) to US Barrels 60°F	ASTM Table 52	6.292
Metric Tons Air to Long Tons	ASTM Table 1	0.984206



Signed by: Saybolt representative  
Name:  
Rank: Saybolt Inspector



**CERTIFICATE OF QUALITY**  
**Witness analysis**

Job Order No.	: 18404/00002661/2025	Sample number	:
Main object	: Quantity and Quality (Witnessing Analysis)	Seal number	: 285390
Location	: Solana Biofuels Limited, Atchutapuram	Date of sampling	: 11.03.2025
Sample object	: Composite Sample of Shore Tank No: C2	Date of testing	: 11-12.03.2025
Product	: BIODIESEL	Date of reporting	: 12.03.2025
Sample marked as	: 1 X 0.5 LTR	Report number	:

TEST	METHOD	UNIT	SPECIFICATION		RESULTS
			Min	Max	
Ester Content	EN14103	%(m/m)	96.5 min		99.14
Density at 15°C	EN ISO 3675	Kg/m3	0.860	0.900	0.8756
Viscosity at 40°C	EN ISO3104	mm2/S	3.5	5.0	4.32
Flash Point	EN ISO3679	°C	101.0		>160
Sulfur Content	EN ISO20846	mg/kg		10.0	1.53
Carbon residue (10%Distillation residue)	EN ISO10370	%(m/m)		0.30	0.008
Cetane Number	EN ISO5165		51.0		60.81
Sulfated Ash content	ISO 3987	%(m/m)		0.02	0.0095
Water Content	EN ISO12937	mg/kg		500.0	165
Total Contamination	EN 12662	mg/kg		24.0	15.60
Copper Strip Corrosion (3H at 500C)	EN ISO 2160	Rating		Class 1.0	1a
Oxidation Stability, 110°C	EN14112	Hours	8.0		> 8.0
Acid value	EN14104	mg KOH/g		0.50	0.27
Iodine Value	EN14111	g I2/100g		120.0	60.07
Linolenic Acid Methyl Ester	EN14103	%(m/m)		12.0	0.3
Poly unsaturated Methyl Esters (>=4 Double bonds)	EN15779	%(m/m)		1.0	0.43
Methanol Content	EN14110	%(m/m)		0.20	0.002
Monoglyceride content	EN14105	%(m/m)		0.80	0.15
Diglyceride content	EN14105	%(m/m)		0.20	0.024
Triglyceride content	EN14105	%(m/m)		0.20	0.01
Free Glycerol	EN14105	%(m/m)		0.02	0.007
Total Glycerol	EN14105	%(m/m)		0.25	0.05
Group I Metals (Na+K)	EN 14538	mg/kg		5.0	1.33
Group II Metals (Ca+Mg)	EN 14538	mg/kg		5.0	0.02
Phosphorus content	EN16294	mg/kg		4.0	0.29
Cold filter plugging point	EN 116	°C		Reported	+14

Remarks: Analysis carried out by M/s. Solana Biofuels Limited., Sampled & Witnessed by M/s. Saybolt & Solana Biofuels Limited  
The Material complies as per the EN14214 specifications.

This report is issued in accordance with the General Terms and Conditions, of Saybolt and the recipient is deemed to have full knowledge thereof.  
Saybolt's responsibility is limited to guarantee that:

- the sample tested is the sample as described in this certificate at the date indicated.
- the results reported are the ones actually determined by the laboratory personnel.

The signature of the Saybolt inspector/chemist on site on the laboratory analysis report/certificate issued by the supplier, (or on this form issued by Saybolt as part of the inspection report), by no means is to be considered a guarantee of the correctness of the testing equipment, which remains the sole responsibility of the performing laboratory, but only confirms that the analytical methods used are the ones indicated.

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Testing witnessed by : Saybolt

Place and date of issue : Solana Biofuels Limited / 12.03.2025