

Date: 11-Oct-2024

Analytical Report KRC24-01387.001

LEMON TREE PRIVATE LIMITED
7-Km, Head Rajkan Road, Khanqah Sharif,
BAHAWALPUR
Pakistan

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the above results. Users of analytical results, when establishing conformance with commercial or regulatory requirements should note the full provisions of ASTM D3244, IP 367 and ISO 4259 in that context, the default confidence level of petroleum testing having been set at the 95% confidence level. Your attention is specifically drawn to Sections 7.3.6., 7.3.7 and 7.3.8 of ASTM D3244. With respect to the UOP methods listed in the report above the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. This document is issued under the Company's General Conditions of Service (copy available upon request or on the company website at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This report shall not be reproduced except in full, without the written approval of the laboratory.

The sample(s) to which the findings recorded herein (the "Finding") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

This laboratory is accredited under ISO/IEC 17025. The results reported herein have been performed in accordance with the laboratory's term of accreditation except calibrations/tests marked with an asterisk (*) in this report which are not within the scope of accreditation for our laboratory.

Client Order Number:	Email Dtaed: October 1st, 2024	SGS Order Number:	2061542
Client ID:	LEMON TREE PRIVATE LIMITED		
Location:		Product Description:	Biodiesel
Sample Source:	Open un identified	Source ID:	Bio Diesel (FAME)
Sample Type:	As submitted	Sampled By:	Client
Sampled:	08-Oct-2024	Received:	08-Oct-2024
Analysed:	09-Oct-2024 - 11-Oct-2024	Completed:	11-Oct-2024
Sub-sample:	[1: 500 mL Plastic Bottle];		
Report Comment:	ASTM D93 Flash Point Performed by Sub-Contracting Lab		

Property	Method	Result	Unit
Relative Density (SG) at 15.6/15.6 °C	ASTM D1298	0.8782	--
Sulfur Content	ASTM D5453	5.5	ppm m/m
Ash from Petroleum Products	ASTM D482		
Ash		<0.01	% (m/m)
Copper Strip corrosion (3h / 100°C {212°F})	ASTM D130	1a	Rating
Conradson Carbon Residue, 10% Distillation Residue	ASTM D189	<0.01	% (m/m)
Acid Number (Inflection end-point)	ASTM D664 (Method A)	0.28	mg KOH/g
Water Content *	ASTM D95	<0.05	% v/v
Kinematic Viscosity at 40 °C (104 °F)	ASTM D445	4.388	cSt
Sediment by Extraction	ASTM D473	<0.01	% (m/m)
Distillation of Petroleum Products at Atmospheric Pressure (Automated)	ASTM D86		
Initial boiling point (IBP)		312.0	°C
50 % Recovered at		334.0	°C

Reported by



Fasih Uddin
Assistant Manager

Authorised Signatory



Raheel Anjum
Lab Manager



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Analysed:	09-Oct-2024 - 11-Oct-2024	Completed:	11-Oct-2024
Sub-sample:	[1: 500 mL Plastic Bottle];		

Property	Method	Result	Unit
90 % Recovered at		340.0	°C
Final boiling point (FBP)		354.0	°C
% Recovery		99.0	% v/v
% Residue *		1.0	% v/v
Cetane Index	ASTM D976	48.8	Rating
Flash Point by PMCC *	ASTM D93 (Procedure A)	170.0	°C
End of Analytical Results			

This document is only valid in its entirety and your attention is drawn to the Terms and Conditions on Page 1 of this report.

Reported by



Fasih Uddin
Assistant Manager

Authorised Signatory



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Lab Manager

