



PRODUCT QUALITY CERTIFICATE
ASTRON ENERGY (PTY) LTD. - CAPE TOWN
1 Platteklouf Road, Milnerton, 7441
DIESEL-C805
Standard Grade Diesel D500

Test Methods and Results

Sampled : 07/07/2019 23:00:00
Batch Finished: 08/07/2019 03:51:08
Report Generated: 08/07/2019 03:51:22

Batch No : DIESEL_2019_00083
Vessel : TANK-308
Samples: Z00250875

Method	Description	Unit of Measure	Result	Specification
D4176 (Proc. 2)	Visual		NO.1	MAX NO. 2
D482	Ash Content	mass %	<0.01	MAX 0.01
D524	10% Rams Bottom Carbon Residue	mass %	0.02	MAX 0.30
D613	Cetane Number		50.2	MIN 45
IP309	Cold Filter Plugging Point , °C	°C	-13	MAX -4
D130	Corrosion - Copper, 3hrs @ 100°C, P. V. used		1	1
D4052	Density @ 20 deg. °C	kg/m3	833.6	MIN 800
D86	Distillation 90% Recovery	°C	335	MAX 362
D2624	Electrical Conductivity - Average	pS/m	177	MIN 100
LAB	Fuel temperature tested	°C	21	Report
EN 14078	Biodiesel Content (FAME)	Vol %	<0.10	MAX 5.0
D93 - Proc. A	Flash Point Pensky-Martens	°C	68.0	MIN 62
ISO 12156	Lubricity Wear Scar Diameter	µm	447	MAX 460
IP440	Total Contaminants	mg/kg	4.4	MAX 12
D2274	Stability - Accelerated	mg/100mL	0.8	MAX 2.0
D5453/D4294/IP336 /D7039	Sulphur	mg/kg	493	MAX 500
D445	Viscosity @ 40 °C	cSt	2.583	2.2 - 5.30
D6304	Water - Coulometer Karl Fischer	mg/kg	46.6	MAX 250
D4737	Calculated Cetane Index		50	MIN 48
D5771	Cloud point , °C	°C	0.3	Report

I certify that above material meets prescribed requirements.

Amanda Ngcani

08/07/2019 03:51:22

Company FQ Analyst / Chemist

Date/Time

1. These tests have been performed in accordance with the latest issues of the relevant test methods. It is certified that this product complies with the requirements of the South Africa National Standard SANS 342: 2016 Edition 5.1 for automotive diesel.

Comments:

2. This certificate relates specifically to the samples tested, but also relates to entire batch insofar as samples are truly representative of that batch.

3. This document shall not be reproduced except in full.

Spec. Comments: