



CERTIFICATE OF ANALYSIS N° CCH-92522

VESSEL : Bardon
 LOCATION : Magellan - Corpus Christi, TX
 PRODUCT : LOW SULFUR DIESEL

MOVEMENT : Load
 REF. NO. : 2386637

Volumetric Composite		After Load	Sample N° : 31	11-FEB-2021 Sampled at 08:00
Description :	1W, 2S, 4S, 5P			
			Minimum	Maximum
D 4052	API Gravity @ 60°F	42.5 °API		Report
D 4052	Density @ 15°C	813.0 Kg/m3		Report
D 5453	Sulfur	0.0242 Wt. %		0.0500
D 93A	Flash Point	66.0 °C	60	
D 2500	Cloud Point	1 °C		10
D 97	Pour Point	-3 °C		Report
D 482	Ash	<0.001 Mass %		0.01
D 189	Carbon Residue, Conradson	0.04 Wt. %		0.10
D 524	Carbon Residue, Ramsbottom	<0.10 Mass %		0.13
D 4176 (1)	Appearance	Clear & Bright		Clear & Bright
D 1500	ASTM Color	L0.5		2.5
D 445	Viscosity @ 40 °C	3.778 cSt	1.9	4.1
D 86	10%	498.3 °F		Report
D 86	50%	569.9 °F		Report
D 86	90%	623.1 °F		680
D 86	Initial Boiling Point	156.5 °C		Report
D 86	10%	259.1 °C		Report
D 86	50%	298.9 °C		Report
D 86	90%	328.4 °C		360
D 86	Final Boiling Point (End Point)	343.3 °C		
D 86	Recovery	98.3 Vol. %		
D 86	Residue	1.4 Vol. %		2
D 86	Loss	0.3 Vol. %		2
D 976	Cetane Index	65.9	45	
D 613	Cetane Number	67.9	45	
D 5186	Total Aromatics (correlated to D1319)	5.3 Vol. %		Report
IP 570-A	Hydrogen Sulfide in Liquid	<0.60 ppm wt.		Report
D 1796	Sediment & Water	0.005 Vol. %		0.05
D 2709	Sediment & Water	<0.010 Vol. %		0.05
D 130	Copper Corrosion @ 50 °C (3 hrs)	1a		2
D 2624	Electrical Conductivity	228 pS/m	25	
D 2624	Sample Temperature	19 °C		
D 7371	Biodiesel Content	<1.0 Vol. %		ND



Camin Cargo Control Inc.
 Corpus Christi, TX USA

Terry Dupnik

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Description :	1W, 2S, 4S, 5P			
D 6079	Wear Scar Diameter @ 60° C	470 microns	Minimum Maximum 520	Remarks Pass

The results apply to the samples as received and specifically to the items listed on this certificate.

Certified that this sample meets the relevant specification with respect to the above tests as noted.

Data contained in this report is confidential to the addressee and shall not be disclosed to any other party without their approval. This report may not be reproduced except in full without the written consent of the Camin Cargo Control.

Samples taken as per Standard Practice for Manual Sampling of Petroleum and Petroleum Products (ASTM D4057 / API MPMS Chapter 8.1) via a Closed System Sampler. Customer is advised that, due to its limitations, the samples may not fully represent the entire cargo.

All testing is performed on premises by Camin Cargo Control and in accordance to the latest referenced test method unless specifically stated otherwise.

The Pass/Fail as expressed within this document represents the decision rule applied to client-determined specifications. These are deemed as pass if the value falls within the limits and as fail if the value falls outside the limits.



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