



CERTIFICATE OF ANALYSIS N° BAY-5765

COMPANY : Atlantic Trading & Marketing, Inc.
CLIENT ADDRESS : 1201 Louisiana Street, Houston, TX, 77002, USA
ATTENTION OF : Melina Ramos

REFERENCE NO. : 240416-MRAMOS-110817 - SSOHV134333
VESSEL : Lady Malou
DESCRIPTION : Volumetric Composite After
SAMPLE LABEL/ID : 85 ⁽²⁾
LOCATION : ExxonMobil - Baytown, TX
PRODUCT : AUTODIESEL S10

MOVEMENT : Load
SAMPLING DATE : 18-Apr-2024 10:00
RECEIVED DATE : 18-Apr-2024 13:37
TESTED DATE : 23-Apr-2024
REPORT DATE : 23-Apr-2024
DRAWN BY : Camin Cargo

Method	Description of Test	Result / Unit	Minimum	Maximum	Remarks
Description : CURACAO SLATE					
ASTM D4052	API Gravity @ 60°F	36.2 °API	32.0		Pass
ASTM D4052	Density @ 60°F	843.0 Kg/m3	820	845	Pass
ASTM D4176 (1A)	Appearance	Clear & Bright			
ASTM D1500	ASTM Color	1.5		2.5	Pass
ASTM D93(A)	Flash Point	67.0 °C	60		Pass
ASTM D2500	Cloud Point	-9 °C		Report	
ASTM D97	Pour Point	-15 °C		0	Pass
ASTM D445	Viscosity @ 40°C / 104 °F	2.975 cSt	2.0		Pass
ASTM D86	Distillation of Petroleum Products (Recovered)				
	10%	425.1 °F			
	50%	529.0 °F			
	90%	629.6 °F			
	Initial Boiling Point	165.9 °C			
	10%	218.4 °C		Report	
	50%	276.1 °C		288	Pass
	90%	332.0 °C	282	338	Pass
	Final Boiling Point (End Point)	358.1 °C		Report	
	Residue	1.4 Vol. %			
	Loss	0.7 Vol. %			
ASTM D976	Cetane Index	51.1	46		Pass
ASTM D613	Cetane Number	52.2	46		Pass
ASTM D1319	Hydrocarbon Types by FIA (Dye Lot# <975 or >980)				
	Aromatics	27.1 Vol. %			
ASTM D5453	Sulfur	6.0 ppm wt.		15	Pass
ASTM D482	Ash	<0.001 Mass %			
ASTM D524	Carbon Residue, Ramsbottom on 10% Bott.	<0.10 Mass %		0.3	Pass
ASTM D2709	Sediment & Water	<0.010 Vol. %		0.02	Pass
ASTM D130	Copper Corrosion @ 122 °F / 50°C (3 hrs)	1a			
ASTM D664(A)	Total Acid Number	0.111 mg KOH/g		0.50	Pass
⁽⁸⁾ ASTM D7359	Chloride Content	<0.50 mg/kg		Report	
ASTM D2624	Electrical Conductivity	268 pS/m	25		Pass

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EN 12916	Aromatic Hydrocarbons by HPLC			
	Polycyclic Aromatic Hydrocarbons	5.3 Mass %	8.0	Pass
ASTM D6079	Lubricity by HFRR			
	Wear Scar Diameter @ 60° C	360 microns	460	Pass
ASTM D2274	Oxidation Stability @ 95 °C Total Insolubles	<1.0 g/m3		
EN 12662	Total Contaminants	<12.0 mg/kg	24	Pass
ASTM D7111	Metals in Distillates by ICP			
	Silicon	<0.10 mg/kg(ppm)	Report	
EN 16576	Metals by ICP-OES (Scope: FE, MN)			
	Manganese	<1.0 mg/L	Report	

⁽²⁾ 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.

⁽⁸⁾ The test method was performed by an external laboratory. Camin Cargo Control does not assume any responsibility for the results, its accuracy or claims to conformity with methodologies, certifications, and accreditations.

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

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The statement of conformity (i.e. Pass/Fail) within this document does not consider measurement uncertainty and applies the decision rules of Pass if the values are equal or are within limits and Fail if outside of limits. Limits are defined by the product's recognized specification or as determined by written client contract and/or individual job request.

Jacob Bilek / Laboratory Retain
Technician