

CERTIFICATE OF ANALYSIS N° PAS-218974

VESSEL : Energy Apollo
LOCATION : PEMEX - Deer Park, TX
PRODUCT : ULSD -

MOVEMENT : Load
REF. NO. : HV59782

Vessel Vol. Composite		After Load	Sample N° :	76 ⁽²⁾	16-JUL-2026 Sampled at 22:19
Description : 2W/4W/6W					
			Minimum	Maximum	Remarks
ASTM D4052	API Gravity @ 60°F	37.5 °API	36.0	39.0	Pass
ASTM D4052	Density @ 15°C	836.8 Kg/m3	829.00	845.00	Pass
Visual	Color	Undyed			
ASTM D4176 (1)	Appearance	Clear & Bright		Clear & Bright	Pass
ASTM D4176 (2)	Haze Rating @ 25 °C / 77 °F	1 Rating			
ASTM D4176 (1)	Vortex Observance	Clear & Bright			
ASTM D1500	ASTM Color	L0.5		3.0	Pass
ASTM D93(A)	Flash Point	61.0 °C	60.0	Report	Pass
ASTM D2500	Cloud Point	-16 °C			
ASTM D97	Pour Point	<-24 °C		-6.0	Pass
ASTM D445	Viscosity @ 40 °C / 104 °F	2.299 cSt	2.0	4.5	Pass
ASTM D86	Distillation of Petroleum Products (Recovered)				
	Initial Boiling Point	159.1 °C			
	10%	192.1 °C	180.0		Pass
	50%	252.5 °C	Report	288.0	Pass
	90%	323.2 °C	282.0	338.0	Pass
	95%	341.6 °C	Report	360.0	Pass
	Final Boiling Point (End Point)	349.9 °C			
	Recovery	97.4 Vol. %			
	Residue	1.4 Vol. %		2.00	Pass
	Loss	1.2 Vol. %		2.00	Pass
ASTM D976	Cetane Index	48.1	47.0		Pass
ASTM D613	Cetane Number	47.0	46.0		Pass
ASTM D1319	Hydrocarbon Types by FIA	(Dye Lot# <975 or >980)			
	Aromatics	28.3 Vol. %		35.0	Pass
ASTM D5453	Sulfur	9.9 ppm wt.		10	Pass
IP 570(A)	Hydrogen Sulfide in Liquid	<0.60 mg/kg(ppm)		2.0	Pass
ASTM D482	Ash Content	<0.001 Mass %		0.01	Pass
ASTM D189	Carbon Residue, Conradson	<0.01 Wt. %			
ASTM D4530	Carbon Residue, Micro Carbon on 10% Bott.	<0.10 Mass %			

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Description : 2W/4W/6W					
			Minimum	Maximum	Remarks
ASTM D473	Sediment by Extraction	0.00 Wt. %			
ASTM D2709	Sediment & Water	<0.010 Vol. %		0.02	Pass
ASTM D130	Copper Corrosion @ 122 °F / 50°C (3 hrs)	1a		1	Pass
ASTM D130	Copper Corrosion @ 100 °C (3 hrs)	1a		1	Pass
Olfactory	Odor	Marketable			
ASTM D7359	Chloride Content	<0.50 mg/kg			
ASTM D5762	Nitrogen	<0.04 Wt. %			
ASTM D2624	Electrical Conductivity	103 pS/m	25		Pass
ASTM D5186	PolyNuclear Aromatics	3.7 Vol. %		11	Pass
EN 12916	Aromatic Hydrocarbons by HPLC				
	Polycyclic Aromatic Hydrocarbons	3.0 Mass %		8.0	Pass
ASTM D7371	Biodiesel Content (FAME)	ND Vol. %		ND	Pass
ASTM D6079	Lubricity by HFRR				
	Wear Scar Diameter @ 60° C	410 microns		460.0	Pass
ASTM D4868	Lower Heating Value	18452 Btu/US gal			
ASTM D2274	Oxidation Stability @95 °C Total Insolubles	0.5 mg/100mL		2.5	Pass
ASTM D2274	Oxidation Stability @95 °C Adherent Insolubles	0.3 mg/100mL		2.5	Pass
ASTM D7111	Metals in Distillates by ICP				
	Silicon	<0.10 mg/kg(ppm)			
EN 16576	Metals by ICP-OES (Scope: FE, MN)				
	Manganese	<0.5 mg/L			

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Description : 2W/4W/6W				
		Minimum	Maximum	Remarks

⁽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.

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

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.

N.D.- None Detected: Below Lower Reporting Limit and/or Lower Detection Limit as per applicable test method and/or instrument capability.

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.

End of the Report

Kiasha Simmons / Laboratory Supervisor

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