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Our Reference Number: US230-0146811
Lab Reference Number: 2024-DRPK-007854
Customer Reference Number: EVERGREEN MARINER ON SUBS

Customer Product Description: Ultra Low Sulfur Diesel	Sample ID: 2024-DRPK-007854-077
Location: Kinder Morgan Liquids Terminals LLC , Pasadena, Texas, United States	Date Sampled: 09-Sep-2024
Sample Representing: Evergreen Mariner (4W) Volumetric Composite After Load	Date Submitted: 09-Sep-2024
Drawn By: Intertek	Date Tested: 10-Sep-2024

Method	Property	Result	Units	Min	Max	P/F
f ASTM D4052	API Gravity @ 60°F	37.9	°API	30.0	39.0	Pass
f ASTM D1500	ASTM Color	<0.5			2.0	Pass
ASTM D93	Procedure Used	A				
	Corrected Flash Point	63.0	°C	60.0		Pass
	Corrected Flash Point	145	°F			
f ASTM D4176	Procedure Used	1				
	Testing Site:	Lab				
	Test Temperature	22	°C			
	Test Temperature	72	°F			
	Clear and Bright	Clear, Bright & Free of Entrained Matter			Clear & Bright	Pass
	Free Water and/or Particulates	No Water or Particles Present				
f ASTM D5453	Sulfur Content	7.3	mg/kg		15	Pass
f ASTM D5186	Monoaromatics by SFC	23.8	mass %			
	Polynuclear Aromatics by SFC	4.1	mass %			
	Total Aromatics by SFC	27.9	mass %			
f ASTM D482	Ash Content	<0.010	Wt %		0.010	Pass
ASTM D7371	FAME Biodiesel	<1.00	Vol %		1.0	Pass
f ASTM D4530	Average Micro Method Carbon Residue	<0.10	Wt %		0.1	Pass
f ASTM D976	Cetane Index	49.8		45		Pass
f ASTM D613	Cetane Number	48.0				
	Batch No. - Ref Fuel T	35				
	Batch No. - Ref Fuel U	35				
f ASTM D2500	Cloud Point	-9	°C			
f ASTM D2624	Temperature	21.0	°C			
	Temperature	70	°F			
	Electrical Conductivity	151	pS/m	50		Pass
f ASTM D130	Copper Corrosion @ 50°C (122°F)/3 hr	1a			STD-1	Pass
f ASTM D86	Instrument (Automatic or Manual)	Automatic				
	Barometric Pressure	761.2	mm Hg			

Certificate of Analysis

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Method	Property	Result	Units	Min	Max	P/F	
f ASTM D86	Initial Boiling Point	160.6	°C				
	5% Recovery	189.7	°C				
	10% Recovery	199.5	°C				
	20% Recovery	213.8	°C				
	30% Recovery	228.1	°C				
	40% Recovery	241.8	°C				
	50% Recovery	256.1	°C		292.0	Pass	
	60% Recovery	270.6	°C				
	70% Recovery	285.1	°C				
	80% Recovery	301.0	°C				
	90% Recovery	321.5	°C		282.0	360.0	Pass
	95% Recovery	338.9	°C				
	Final Boiling Point	349.2	°C				
	Recovery	98.1	Vol %				
	Residue	1.4	Vol %				
	Total Recovery	99.5	Vol %				
	Loss	0.5	Vol %				
	Corrected Loss	0.5	Vol %				
	Corrected Recovery	98.1	Vol %				
	Corrected Total Recovery	99.5	Vol %				
f ASTM D4176	Procedure Used	2					
	Testing Site:	Lab					
	Test Temperature	21	°C				
	Test Temperature	21	°C				
	Test Temperature	70	°F				
	Free Water and/or Particulates	No Water or Particles Present					
	Haze Rating	1				2	Pass
Special Observation	none						
f ASTM D4868	Net Heat of Combustion	131249	BTU/gal				
	Net Heat of Combustion.	157,630.05	BTU/IG	152,500.00		Pass	
f ASTM D6079	Major Axis	400	µm				
	Minor Axis	350	µm				

Certificate of Analysis

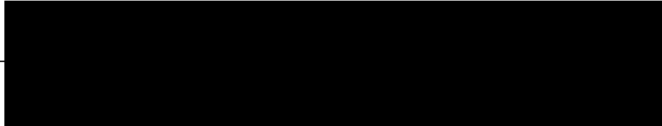
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Method	Property	Result	Units	Min	Max	P/F
f ASTM D6079	Wear Scar Diameter	380	µm		460	Pass
f ASTM D974	Acid Number	0.02	mg KOH/g		0.5	Pass
ASTM D1296	Odor.	Marketable			Marketable	Pass
f ASTM D2274	Filterable Insolubles	0.1	mg/100ml			
	Adherent Insolubles	0.0	mg/100ml			
	Total Insolubles	0.1	mg/100ml		1.6	Pass
f ASTM D97	Pour Point	-33	°C		0	Pass
f ASTM D2622	Sulfur Content	7.7	mg/kg		15	Pass
f ASTM D445	Kinematic Viscosity at 104 °F/40 °C	2.848	mm ² /s	1.9	4.1	Pass
f ASTM D2709	Sediment and Water	<0.01	Vol%		0.05	Pass

f - Denotes analysis results which are ISO/IEC 17025 accredited by ANSI National Accreditation Board.

Results are only representative of the sample tested. All tests have been performed using the latest version unless otherwise indicated. This report shall not be reproduced except in full without written approval of Intertek. Report is subject to our standard Terms and Conditions which can be obtained at our website: <http://www.intertek.com/terms>

Signed By: 

Date: 9/10/2024