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Our Reference Number: NA100-0007876
Lab Reference Number: 2024-CURA-000048
Customer Reference Number: Analysis on ULSD

Customer Product Description: Ultra Low Sulphur Diesel (ULSD)	Sample ID: 2024-CURA-000048-001
Location: Curacao, Curacao, , Netherlands Antilles	Date Sampled: 28-Mar-2024
Sample Representing: Vessel Sea Cougar Submitted Composite Before Discharge	Date Submitted: 28-Mar-2024
Drawn By: Client	Date Tested: 20-Apr-2024

Method	Property	Result	Units	Min	Max	P/F
ASTM D445	Kinematic Viscosity at 40 °C	2.163	mm ² /s	2.0	4.1	Pass
ASTM D4052	API Gravity @ 60°F	40.0	°API	32.0		Pass
	Density @ 15°C	824.9	kg/m ³	820	845	Pass
	Specific Gravity @ 60°F	0.8253				
ASTM D976	Cetane Index	49.6		46.0		Pass
² ASTM D2622	Sulfur Content	2.8	ppm Wt		15	Pass
ASTM D93	Corrected Flash Point	66.5	°C	60.0		Pass
ASTM D664	Acid Number	0.07	mg KOH/g		0.50	Pass
² ASTM D2274	Total Insolubles (Oxidation Stability)	1	mg/L		25	Pass
ASTM D4530	Micro Method Carbon Residue 10%	<0.1	Wt %		0.3	Pass
ASTM D2500	Cloud Point	-18	°C			
ASTM D97	Pour Point	<-24	°C		0	Pass
ASTM D4176 MOD	Appearance	Clear & Bright		Clear and Bright		Pass
² ASTM D2709	Sediment and Water	<0.01	Vol %		0.02	Pass
ASTM D482	Ash	<0.010	Wt %		0.010	Pass
² ASTM D6079	Wear Scar Diameter	430	µm		460	Pass
ASTM D86	10% Recovery	197.0	°C			
	50% Recovery	242.0	°C		288.0	Pass
	90% Recovery	312.0	°C	282.0	338.0	Pass
	Final Boiling Point	334.0	°C			
	Recovery	98.0	% Vol			
	Residue	1.5	% Vol		2.0	Pass
	Loss	0.5	% Vol		2.0	Pass
ASTM D1500	ASTM Color	<1		<= 2.5		Pass
² ASTM D130	Copper Corrosion @ 50°C (122°F)/3 hr	1a			Max No. 3	Pass
² ASTM D613	Cetane Number	50.6		46.0		Pass
² ASTM D1319	Aromatics	18.1	Vol %		35.0	Pass
² EN 12662	Total Contamination	5.5	mg/kg		24.0	Pass
² ASTM D7111	Manganese	<0.10	mg/kg			
	Silicon	<0.10	mg/kg			

Report of Analysis

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Method	Property	Result	Units	Min	Max	P/F
² ASTM D2624	Electrical Conductivity	30	pS/m	25		Pass
² ASTM D7359	Chloride	<1.0	mg/kg			

Material conforms to the Curoil ULSD requirements on above relevant point(s) of testing

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Signed:  Date: 20-Apr-2024

 Glenn Gustina, Branch Coordinator