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Our Reference Number: NA100-0007881
Lab Reference Number: 2024-CURA-000052
Customer Reference Number: Analysis on ULSD

Customer Product Description: Ultra Low Sulphur Diesel (ULSD)	Sample ID: 2024-CURA-000052-001
Location: Motet, Curacao, , Netherlands Antilles	Date Sampled: 30-Mar-2024
Sample Representing: Shore Tank 08 Submitted Composite After Discharge	Date Submitted: 30-Mar-2024
Drawn By: Client	Date Tested: 19-Apr-2024

Method	Property	Result	Units	Min	Max	P/F
ASTM D4052	API Gravity @ 60°F	39.8	°API	32.0		Pass
	Density @ 15°C	825.4	kg/m³	820	845	Pass
	Specific Gravity @ 60°F	0.8258				
ASTM D976	Cetane Index	48.9		46.0		Pass
² ASTM D2622	Sulfur Content	5.0	ppm Wt		15	Pass
ASTM D93	Corrected Flash Point	66.5	°C	60.0		Pass
ASTM D664	Acid Number	0.06	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	460	µm		460	Pass
ASTM D86	10% Recovery	198.0	°C			
	50% Recovery	240.0	°C		288.0	Pass
	90% Recovery	302.0	°C	282.0	338.0	Pass
	Final Boiling Point	338.0	°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	
² ASTM D130	Copper Corrosion @ 50°C (122°F)/3 hr	1a			Max No. 3	Pass
² ASTM D613	Cetane Number	50.8		46.0		Pass
² ASTM D1319	Aromatics	18.1	Vol %		35.0	Pass
² EN 12662	Total Contamination	<12.0	mg/kg		24.0	Pass
² ASTM D7111	Manganese	<0.10	mg/kg			
	Silicon	<0.10	mg/kg			
² ASTM D2624	Electrical Conductivity	31	pS/m	25		Pass

Report of Analysis

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Method	Property	Result	Units	Min	Max	P/F
² UOP 779	Chloride	<1.0	mg/kg			
ASTM D445	Kinematic Viscosity at 40 °C	2.174	mm ² /s	2.0	4.1	Pass
ASTM D95	Water Content	<0.01	% V/V			


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

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The analysis results denoted by (2) were performed by Saybolt LP Deer Park laboratory. Intertek cannot accept liability for the accuracy of any results not performed by its own laboratories.

Signed:  Date: 19-Apr-2024

 Glenn Gustina, Branch Coordinator