Report of Analysis

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Our Reference Number: NA100-0007728
Lab Reference Number: 2023-CURA-000087
Customer Reference Number: 12701/3571

Customer Product Description: Ultra Low Sulphur Diesel (ULSD)	**Sample ID:** 2023-CURA-000087-001
Location: Curacao, Curacao, , Netherlands Antilles	**Date Sampled:** 29-Nov-2023
Sample Representing: SCHWYZ Volumetric Composite Before Discharge	**Date Submitted:** 29-Nov-2023
Drawn By: Client	**Date Tested:** 13-Dec-2023

Method	Property	Result	Units	Min	Max	P/F
ASTM D445	Kinematic Viscosity @ 40°C	2.382	mm2/s	2.0	4.1	Pass
ASTM D4052	API Gravity @ 60°F	38.4	°API	32		Pass
	Density @ 15°C	832.7	kg/m³	820.0	845.0	Pass
	Specific Gravity @ 60°F	0.8328				
ASTM D976	Cetane Index, Calculation	48.9		46		Pass
[1] ASTM D5453	Sulfur Content	8.9	ppm		15	Pass
ASTM D93	Corrected Flash Point	62.0	°C	60.0		Pass
ASTM D664	Acid Number	<0.01	mg KOH/g		0.50	Pass
[2] ASTM D2274	Total Insolubles (Oxidation Stability)	<1.0	mg/L		25	Pass
ASTM D4530	Micro Method Carbon Residue 10%	<0.10	%(m/m)		0.30	Pass
ASTM D2500	Cloud Point	-8	°C			
ASTM D97	Pour Point	-21	°C		0	Pass
ASTM D4176 MOD	Appearance	Clear & Bright		Clear & Bright		Pass
ASTM D95	Water Content	0.00	%(V/V)		0.02	Pass
ASTM D482	Ash	<0.001	% (m/m)		0.01	Pass
[2] ASTM D6079	Wear Scar Diameter	380	µm		460	Pass
ASTM D86	10% Recovery	188.0	°C			
	50% Recovery	252.0	°C		288	Pass
	90% Recovery	332.0	°C	282	338	Pass
	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 /3 hr	1b			No.3	Pass
[2] ASTM D613	Cetane Number	47.3		46		Pass
[2] ASTM D1319	Aromatics	21.2	Vol %		35	Pass
[2] EN 12662	Total Contamination	1.0	mg/kg		24	Pass
[2] ASTM D7111	Manganese	<0.1	mg/kg			
	Silicon	<0.1	mg/kg			
[2] ASTM D2624	Electrical Conductivity	33	pS/M	25		Pass
[2] UOP 779	Chloride	<1	mg/kg			

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	Method	Property	Result	Units	Min	Max	P/F
2	ASTM D6591	Polycyclic Aromatic Hydrocarbons	1.8	% (m/m)		8.0	Pass

Material conforms to the ISO 8217 DMA Summer requirements on above relevant point(s) of testing

Signed: _____   Date: 13-Dec-2023 _____

Glenn Gustina, Branch Coordinator