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Report of Analysis

Curacao Oil N. V. (Curoil)
Excon Martina
A.M Chumanceiro Blvd.15,
P.O. Box 3927
Willemstad
Netherlands Antilles

Our Reference Number: NA100-0007934
Lab Reference Number: 2024-CURA-000078
Customer Reference Number: Sea Frontier

Customer Product Description: ULSD
Location: Prins Hendrik Wharf, Curacao, , Netherlands Antilles
Sample Representing: Shore Tank 06 U,M,L, Average After Discharge
Drawn By: Intertek

Sample ID: 2024-CURA-000078-002
Date Sampled: 03-Jun-2024
Date Submitted: 03-Jun-2024
Date Tested: 27-Jun-2024

	Method	Property	Result	Units	Min	Max	P/F
	ASTM D445	Kinematic Viscosity at 40 °C	2.667	mm²/s	2.0	4.1	Pass
	ASTM D4052	API Gravity @ 60°F	37.4	°API	32.0		Pass
		Density @ 15°C	837.6	kg/m³	820	845	Pass
		Specific Gravity @ 60°F	0.8380				
	ASTM D976	Cetane Index	50.9		46.0		Pass
	ASTM D2622	Sulfur Content	7.4	mg/kg		15	Pass
3	ASTM D93	Corrected Flash Point	65.0	°C	60.0		Pass
	ASTM D664	Acid Number	0.04	mg KOH/g		0.50	Pass
3	ASTM D2274	Total Insolubles (Oxidation Stability)	2	mg/L		25	Pass
	ASTM D4530	Micro Method Carbon Residue 10%	<0.1	Wt %		0.3	Pass
	ASTM D2500	Cloud Point	-10	°C			
	ASTM D97	Pour Point	-21	°C		0	Pass
	ASTM D4176 MOD	Appearance	Clear & Bright		Clear and Bright		Pass
	ASTM D482	Ash	<0.010	Wt %		0.010	Pass
2	ASTM D6079	Wear Scar Diameter	410	µm		460	Pass
	ASTM D86	Initial Boiling Point	167.0	°C			
		10% Recovery	202.0	°C			
		50% Recovery	265.0	°C		288.0	Pass
		90% Recovery	332.0	°C	282.0	338.0	Pass
		Final Boiling Point	358.0	°C			
		Residue	1.5	% Vol		2.0	Pass
		Loss	0.5	% Vol		2.0	Pass
	ASTM D1500	ASTM Color	1.0		<= 2.5		Pass
2	ASTM D130	Copper Corrosion @ 50°C (122°F)/3 hr	1a			Max No. 3	Pass
2	ASTM D613	Cetane Number	50.0		46.0		Pass
2	ASTM D1319	Aromatics	23.8	Vol %		35.0	Pass
2	EN 12662	Total Contamination	<12.0	mg/kg		24.0	Pass
2	ASTM D7111	Manganese	<0.50	mg/kg			
		Silicon	<0.10	mg/kg			
	ASTM D2624	Temperature	26.0	°C			
		Electrical Conductivity	182	pS/m	25		Pass

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	Method	Property	Result	Units	Min	Max	P/F
2	UOP 779	Chloride	<2	mg/kg			
2	ASTM D6591	Polycyclic-Aromatic Hydrocarbons (POLY-AH)	3.0	Mass %		8.0	Pass
	ASTM D95	Water Content	<0.01	% (V/V)		0.02	Pass

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

The analysis results denoted by (2) were performed by Intertek Panama laboratory.

The analysis results denoted by (3) were performed by CRU Refinery laboratory. Intertek cannot accept liability for the accuracy of any results not performed by its own laboratories.

Signed: _____ Date: 27-Jun-2024

Glenn Gustina, Branch Coordinator