

Curacao Oil N. V. (Curoil)
Excon Martina
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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	Sample ID: 2024-CURA-000078-003
Location: Prins Hendrik Wharf, Curacao, , Netherlands Antilles	Date Sampled: 03-Jun-2024
Sample Representing: Shore Tank 08 U,M,L, Average After Discharge	Date Submitted: 03-Jun-2024
Drawn By: Intertek	Date Tested: 27-Jun-2024

Method	Property	Result	Units	Min	Max	P/F
ASTM D445	Kinematic Viscosity at 40 °C	2.286	mm²/s	2.0	4.1	Pass
ASTM D4052	API Gravity @ 60°F	39.1	°API	32.0		Pass
	Density @ 15°C	829.0	kg/m³	820	845	Pass
	Specific Gravity @ 60°F	0.8294				
ASTM D976	Cetane Index	49.8		46.0		Pass
ASTM D2622	Sulfur Content	7.6	mg/kg		15	Pass
³ ASTM D93	Corrected Flash Point	61.0	°C	60.0		Pass
ASTM D664	Acid Number	0.09	mg KOH/g		0.50	Pass
³ 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	-7	°C			
ASTM D97	Pour Point	-18	°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	380	µm		460	Pass
ASTM D86	Initial Boiling Point	171.0	°C			
	10% Recovery	191.0	°C			
	50% Recovery	248.0	°C		288.0	Pass
	90% Recovery	329.0	°C	282.0	338.0	Pass
	Final Boiling Point	363.0	°C			
	Residue	1.5	% Vol		2.0	Pass
	Loss	0.5	% Vol		2.0	Pass
ASTM D1500	ASTM Color	0.5		<= 2.5		Pass
² ASTM D130	Copper Corrosion @ 50°C (122°F)/3 hr	1a			Max No. 3	Pass
² ASTM D613	Cetane Number	51.0		46.0		Pass
² ASTM D1319	Aromatics	19.0	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	550	pS/m	25		Pass

Report of Analysis

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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)	1.7	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

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Signed:  Date: 27-Jun-2024

 Glenn Gustina, Branch Coordinator