

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

Our Reference Number: NA100-0007913
Lab Reference Number: 2024-CURA-000064
Customer Reference Number: Lady Malou

Customer Product Description: ULSD	Sample ID: 2024-CURA-000064-009
Location: Prins Hendrik Wharf, Curacao, , Netherlands Antilles	Date Sampled: 04-May-2024
Sample Representing: Shore Tank 02 U,M,L, Average After Discharge	Date Submitted: 04-May-2024
Drawn By: Intertek	Date Tested: 17-May-2024

Method	Property	Result	Units	Min	Max	P/F
ASTM D445	Kinematic Viscosity at 40 °C	2.919	mm ² /s	2.0	4.1	Pass
ASTM D4052	API Gravity @ 60°F	36.4	°API	32.0		Pass
	Density @ 15°C	842.4	kg/m ³	820	845	Pass
	Specific Gravity @ 60°F	0.8429				
ASTM D976	Cetane Index	50.6		46.0		Pass
ASTM D2622	Sulfur Content	7.2	ppm Wt		15	Pass
ASTM D93	Corrected Flash Point	65.5	°C	60.0		Pass
ASTM D664	Acid Number	0.07	mg KOH/g		0.50	Pass
³ ASTM D2274	Total Insolubles (Oxidation Stability)	3	mg/L		25	Pass
ASTM D4530	Micro Method Carbon Residue 10%	<0.1	Wt %		0.3	Pass
ASTM D2500	Cloud Point	-9	°C			
ASTM D97	Pour Point	-15	°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	Major Axis	370	µm			
	Minor Axis	340	µm			
	Wear Scar Diameter	360	µm		460	Pass
ASTM D86	10% Recovery	212.0	°C			
	50% Recovery	271.0	°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	<1.5		<= 2.5		Pass
² ASTM D130	Copper Corrosion @ 50°C (122°F)/3 hr	1b			Max No. 3	Pass
² ASTM D613	Cetane Number	51.2		46.0		Pass
² ASTM D1319	Aromatics	24.4	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	Electrical Conductivity	160	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			
² ASTM D6591	Polycyclic-Aromatic Hydrocarbons (POLY-AH)	4.9	Mass %		8.0	Pass
ISO 3733	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 Intertek Lab at Deer Park, Texas

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.

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Signed: 

 Glenn Gustina, Branch Coordinator

Date: 17-May-2024