

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-000064-001		
Location: Prins Hendrik Wharf, Curacao, , Netherlands Antilles			Date Sampled: 02-May-2024		
Sample Representing: Lady Malou Volumetric Composite Before Discharge			Date Submitted: 02-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	2.972	mm²/s	2.0	4.1	Pass
ASTM D4052	API Gravity @ 60°F	36.2	°API	32.0		Pass
	Density @ 15°C	843.6	kg/m³	820	845	Pass
	Specific Gravity @ 60°F	0.8440				
ASTM D976	Cetane Index	50.6		46.0		Pass
ASTM D2622	Sulfur Content	6.5	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
<sup>3</sup> 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			
ASTM D4176 MOD	Appearance	Clear & Bright		Clear and Bright		Pass
ASTM D482	Ash	<0.010	Wt %		0.010	Pass
<sup>2</sup> ASTM D6079	Major Axis	430	µm			
	Minor Axis	380	µm			
	Wear Scar Diameter	400	µm		460	Pass
ASTM D86	10% Recovery	212.0	°C			
	50% Recovery	273.0	°C		288.0	Pass
	90% Recovery	330.0	°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
<sup>2</sup> ASTM D130	Copper Corrosion @ 50°C (122°F)/3 hr	1b			Max No. 3	Pass
<sup>2</sup> ASTM D613	Cetane Number	51.7		46.0		Pass
<sup>2</sup> ASTM D1319	Aromatics	27.3	Vol %		35.0	Pass
<sup>2</sup> EN 12662	Total Contamination	<12.0	mg/kg		24.0	Pass
<sup>2</sup> ASTM D7111	Manganese	<0.50	mg/kg			
	Silicon	<0.10	mg/kg			

## Report of Analysis

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Method	Property	Result	Units	Min	Max	P/F
ASTM D2624	Electrical Conductivity	211	pS/m	25		Pass
<sup>2</sup> UOP 779	Chloride	<1.0	mg/kg			
<sup>2</sup> ASTM D6591	Polycyclic-Aromatic Hydrocarbons (POLY-AH)	5.3	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

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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: \_\_\_\_\_



Glenn Gustina, Branch Coordinator

Date: 17-May-2024