

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

Our Reference Number: NA100-0007772
Lab Reference Number: 2024-CURA-000005
Customer Reference Number: Hafnia Andrea

Customer Product Description: ULSD	Sample ID: 2024-CURA-000005-003
Location: Prins Hendrik Wharf, Curacao, , Netherlands Antilles	Date Sampled: 13-Jan-2024
Sample Representing: Shore Tank 06 U,M,L, Average After Discharge	Date Submitted: 13-Jan-2024
Drawn By: Intertek	Date Tested: 30-Jan-2024

Method	Property	Result	Units	Min	Max	P/F
ASTM D445	Kinematic Viscosity at 40 °C	2.808	mm²/s	2.0	4.1	Pass
ASTM D4052	API Gravity @ 60°F	37.0	°API	32.0		Pass
	Density @ 15°C	839.3	kg/m³	820	845	Pass
	Specific Gravity @ 60°F	0.8398				
ASTM D976	Cetane Index	56.6		46.0		Pass
ASTM D5453	Sulfur Content	11	ppm Wt		15	Pass
ASTM D93	Flash Point	63.5	°C	60.0		Pass
ASTM D664	Acid Number	0.05	mg KOH/g		0.50	Pass
² ASTM D2274	Total Insolubles (Oxidation Stability)	2	mg/L		25	Pass
ASTM D4530	Micro Method Carbon Residue 10% Distillation Residue	<0.1	Wt %		0.3	Pass
ASTM D2500	Cloud Point	-7	°C			
ASTM D97	Pour Point	-27	°C		0	Pass
ASTM D4176 MOD	Appearance	Clear & Bright		Clear and Bright		Pass
ASTM D2709	Sediment and Water	<0.01	Vol %		0.02	Pass
ASTM D482	Ash	<0.010	Wt %		0.010	Pass
ASTM D6079	Wear Scar Diameter	370	µm		460	Pass
ASTM D86	10% Recovery	206.0	°C			
	50% Recovery	266.0	°C		288.0	Pass
	90% Recovery	333.0	°C	282.0	338.0	Pass
	Final Boiling Point	354.0	°C			
	Residue	1.0	% 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	1a			Max No. 3	Pass
ASTM D613	Cetane Number	50.8		46.0		Pass
ASTM D5186	Aromatics	22.9	Vol %		35.0	Pass
EN 12662	Total Contamination	<12.0	mg/kg		24.0	Pass
EN 16576	Manganese	<0.10	mg/kg			
ASTM D7111	Silicon	<0.10	mg/kg			
ASTM D2624	Electrical Conductivity	184	pS/m	25		Pass
ASTM D7359	Chloride	<1.0	mg/kg			

Report of Analysis

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Method	Property	Result	Units	Min	Max	P/F
EN 12916	Polycyclic-Aromatic Hydrocarbons (POLY-AH)	5.3	Mass %		8.0	Pass

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 CRU Refinery laboratory. Intertek cannot accept liability for the accuracy of any results not performed by its own laboratories.

Signed:  Date: 30-Jan-2024
Glenn Gustina, Branch Coordinator