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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

Comment Preliminary Report of Analysis

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

Customer Product Description: ULSD
Location: Prins Hendrik Wharf, Curacao, , Netherlands Antilles
Sample Representing: Hafnia Andrea Volumetric Composite Before Discharge
Drawn By: Intertek

Sample ID: 2024-CURA-000005-001
Date Sampled: 11-Jan-2024
Date Submitted: 11-Jan-2024
Date Tested: 15-Jan-2024

	Method	Property	Result	Units	Min	Max	P/F
	ASTM D445	Kinematic Viscosity at 40 °C	2.778	mm²/s	2.0	4.1	Pass
	ASTM D4052	API Gravity @ 60°F	37.0	°API	32.0		Pass
		Density @ 15°C	839.2	kg/m³	820	845	Pass
	ASTM D976	Cetane Index	51.0		46.0		Pass
	ASTM D5453	Sulfur Content	14	ppm Wt		15	Pass
	ASTM D93	Corrected Flash Point - Procedure A	63.0	°C	60.0		Pass
	ASTM D664	Acid Number	0.06	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%	<0.1	Wt %		0.3	Pass
	ASTM D2500	Cloud Point	-11	°C			
	ASTM D97	Pour Point	-24	°C		0	Pass
	ASTM D4176 MOD	Appearance	Clear & Bright		Clear and Bright		Pass
	ASTM D482	Ash	<0.010	Wt %		0.010	Pass
	ASTM D86	10% Recovery	202.0	°C			
		50% Recovery	268.0	°C		288.0	Pass
		90% Recovery	327.0	°C	282.0	338.0	Pass
		Final Boiling Point	350.0	°C			
		Residue	1.0	% Vol		2.0	Pass
		Loss	0.5	% Vol		2.0	Pass
	ASTM D1500	ASTM Color	1.5		<= 2.5		Pass
	ASTM D2624	Electrical Conductivity	224	pS/m	25		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: 15-Jan-2024

Glenn Gustina, Branch Coordinator