

Saybolt LP
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Willemstad, Curacao
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Netherlands Antilles

Our Reference Number: NA100-0007728
Lab Reference Number: 2023-CURA-000087
Customer Reference Number: 12701/3571

Customer Product Description: Ultra Low Sulphur Diesel (ULSD)	Sample ID: 2023-CURA-000087-002
Location: Curacao, Curacao, , Netherlands Antilles	Date Sampled: 01-Dec-2023
Sample Representing: TK 08 U,M,L, Average Sample Only	Date Submitted: 03-Dec-2023
Drawn By: Client	Date Tested: 13-Dec-2023

Method	Property	Result	Units	Min	Max	P/F
ASTM D445	Kinematic Viscosity @ 40°C	2.388	mm ² /s	2.0	4.1	Pass
ASTM D4052	API Gravity @ 60°F	38.4	°API	32		Pass
	Density @ 15°C	832.2	kg/m ³	820.0	845.0	Pass
	Specific Gravity @ 60°F	0.8328				
ASTM D976	Cetane Index, Calculation	49.1		46		Pass
² ASTM D5453	Sulfur Content	9.5	ppm		15	Pass
ASTM D93	Corrected Flash Point	61.0	°C	60.0		Pass
ASTM D664	Acid Number	<0.01	mg KOH/g		0.50	Pass
² ASTM D2274	Total Insolubles (Oxidation Stability)	1	mg/L		25	Pass
ASTM D4530	Micro Method Carbon Residue 10%	<0.10	%(m/m)		0.30	Pass
ASTM D2500	Cloud Point	-9	°C			
ASTM D97	Pour Point	-21	°C		0	Pass
ASTM D4176 MOD	Appearance	Clear & Bright		Clear & Bright		Pass
ASTM D95	Water Content	0.00	%(V/V)		0.02	Pass
ASTM D482	Ash	<0.001	%(m/m)		0.01	Pass
² ASTM D6079	Wear Scar Diameter	380	µm		460	Pass
ASTM D86	10% Recovery	188.0	°C			
	50% Recovery	252.0	°C		288	Pass
	90% Recovery	333.0	°C	282	338	Pass
	Residue	1.5	Vol %		2.0	Pass
	Loss	0.5	Vol %		2.0	Pass
ASTM D1500	ASTM Color	<1			2.5	Pass
² ASTM D130	Copper Corrosion @ 50°C /3 hr	1a			No.3	Pass
² ASTM D613	Cetane Number	46.7		46		Pass
² ASTM D1319	Aromatics	22.4	Vol %		35	Pass
² EN 12662	Total Contamination	<0.01	mg/kg		24	Pass
² ASTM D7111	Manganese	<0.1	mg/kg			
	Silicon	<0.1	mg/kg			
² ASTM D2624	Electrical Conductivity	202	pS/M	25		Pass
² UOP 779	Chloride	<1	mg/kg			

Report of Analysis

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Method	Property	Result	Units	Min	Max	P/F
² ASTM D6591	Polycyclic Aromatic Hydrocarbons	1.9	% (m/m)		8.0	Pass

Material conforms to the ISO 8217 DMA Summer requirements on above relevant point(s) of testing

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 The sample was submitted for testing purposes. Intertek cannot accept liability for the representativeness of the sample.

The analysis results denoted by (2) were performed by Saybolt LP Laboratories. Intertek cannot accept liability for the accuracy of any results not performed by its own laboratories.

Signed: 

 Glenn Gustina, Branch Coordinator

Date: 13-Dec-2023
