



Certificate of Analysis

Nomination ID: USCOR-20-00894

Bureau Veritas Commodities and Trade
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Client	IWC	Submitted By	IWC Oil & Refinery, LLC
Asset	SHORE TANK 201	Date Sampled	23-Jul-2020
Product	ULSD	Date Received	23-Jul-2020
Client Reference	TBN	Date Analyzed	23-Jul-2020
Job Location	FLINT HILLS WEST	Date Reported	23-Jul-2020
TOCM Job ID	USCOR-20-00894		

SHORE TANK 201 UPPER			
USCOR-20-00894-001			
Method	Test	Result	Specification
ASTM D4052	API Gravity @60°F, °API	35.8	
	Specific Gravity, 20/4°C	0.8462	REPORT
SHORE TANK 201 MIDDLE			
USCOR-20-00894-002			
Method	Test	Result	Specification
ASTM D4052	API Gravity @60°F, °API	35.8	
	Specific Gravity, 20/4°C	0.8462	REPORT
SHORE TANK 201 LOWER			
USCOR-20-00894-003			
Method	Test	Result	Specification
ASTM D4052	API Gravity @60°F, °API	35.9	
	Specific Gravity, 20/4°C	0.8456	REPORT
SHORE TANK 201 AVERAGE			
USCOR-20-00894-004			
Method	Test	Result	Specification
ASTM D4052	API Gravity @60°F, °API	35.8	
	Specific Gravity, 20/4°C	0.8462	REPORT
ASTM D86	IBP, °C	162.6	REPORT
	10% Recovered, °C	197.8	275 MAX
	50% Recovered, °C	258.6	REPORT
	90% Recovered, °C	328.1	345 MAX
	Endpoint, °C	356.4	REPORT
	Recovery, % (V/V)	98.9	
	Residue, % (V/V)	1.0	
	Loss, % (V/V)	0.1	
ASTM D93A	Corrected Flash Point, °C	61.0	45 MIN
ASTM D97	Pour Point, °C	-21	0 MAX
ASTM D2500	Cloud Point, °C	-9	REPORT
ASTM D976	Cetane Index	46.8	45 MIN
ASTM D2622	Total Sulfur Content, mg/kg	6.3	15 MAX
ASTM D130	Corrosion Copper Strip - 3h at 50°C (122°F)	1a	STD 1
ASTM D524	Ramsbottom Carbon Residue on 10% Distillation	0.08	0.25 MAX
ASTM D2709	Water and Sediment, % (V/V)	* 0.01	0.05 MAX
ASTM D445	Kinematic Viscosity at 40°C, mm²/s	2.599	1.9 MIN - 4.1 MAX
ASTM D482	Ash, % (m/m)	*0.010	0.01 MAX
ASTM D1500	ASTM Color	L1.0	2.5 MAX
ASTM D1319	Aromatics, % (V/V)	23	35 MAX
ASTM D6079	Test Temperature, °C	60	
	Wear Scar Diameter, µm	420	520 MAX
ASTM D2624	Elec. Conductivity, pS/m	122	25 MIN
	Sample Temperature, °C	22	

Comments:

* Results are lower/higher than the methods spectre. Lowest/highest possible result reported.

Nichole Pena

NICHOLE PENA, Shift Lead Lab Technician