

FUEL REPORT

Area Bon Secours St Francis East Side [Bon Secours St Francis East Side] DAY 3

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (200 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel. Please note that this is a corrected copy for diagnostic comment updates.

Corrosion

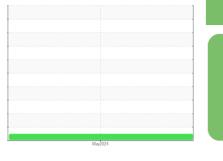
All metal levels are normal indicating no corrosion in the system.

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The amount and size of particulates present in the system are acceptable.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.



Sample Rating Trend



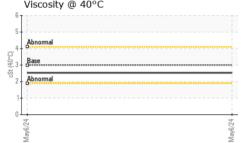
NORMAL

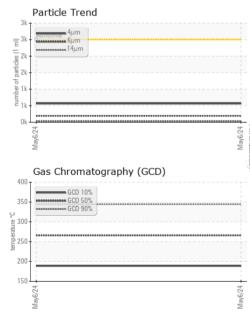
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06179657		
Sample Date		Client Info		06 May 2024		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.53		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	69.9		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	512		
Sulfur (UVF)	ppm	ASTM D5453		413		
	1.1-		11		1.	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	181		
5% Distillation Point	°C	ASTM D86		202		
10% Distill Point	°C	ASTM D86	201	210		
15% Distillation Point	°C	ASTM D86		217		
20% Distill Point	°C	ASTM D86	216	225		
30% Distill Point	°C	ASTM D86	230	238		
40% Distill Point	°C	ASTM D86	243	251		
50% Distill Point	°C	ASTM D86	255	263		
60% Distill Point	°C	ASTM D86	267	276		
70% Distill Point	°C	ASTM D86	280	289		
80% Distill Point	°C	ASTM D86	295	304		
85% Distillation Point	°C	ASTM D86		314		
90% Distill Point	°C	ASTM D86	310	324		
95% Distillation Point	°C	ASTM D86		342		
Final Boiling Point	°C	ASTM D86	341	357		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	35		
Cetane Index		ASTM D4737	<40.0	46		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	<1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.004		
ppm Water	ppm	ASTM D6304	<500	49		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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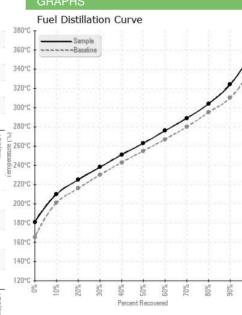
Particle Count		
491,520		T ²⁶
122,880 -		-24
30,720 Severe		-22 80
7,680 Abnormal		20 1406
30,720 gevele 7.680 hbnomal 1.920 460 120 30 8		18 199
480		16 👷
120-		-14 m
30-		+22 180 4406:1999 Cleanliness Code +16 -14 -112 sc Code +10 -10 -10
8-		-10 8
2-		-8
		6
$0_{4\mu}$ 6μ 14μ 21μ Water (KF)	38µ	71µ
Water (KF)	38µ	71µ
Water (KF)	38µ	71µ
Water (KF)	38µ	TIμ
Water (KF)	38µ	71μ
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Water (KF)	38µ	71µ
Water (KF)	38µ	
Water (KF)	38µ	May6/24

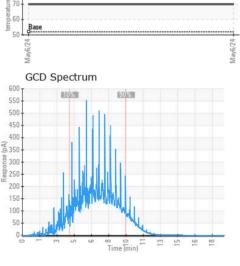




FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	565		
Particles >6µm		ASTM D7647	>640	194		
Particles >14µm		ASTM D7647	>80	29		
Particles >21µm		ASTM D7647	>20	8		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/15/12		
HEAVY METALS	\$	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0		
Nickel	ppm	ASTM D5185m	<0.1	0		
Lead	ppm	ASTM D5185m	<0.1	0		
Vanadium	ppm	ASTM D5185m	<0.1	0		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	<1		
Magnesium	ppm	ASTM D5185m	<0.1	0		
Phosphorus	ppm	ASTM D5185m	<0.1	<1		
Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						
Fuel Distillation C	urve			Pensky-Marte	ns Flash Point (°C)
Sample			9 - 0	70		
D°CBaseline				50 -		
)°C			/? I			
0°C -		/	1	May6/24		
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: WC06179657 210 POWELL DR Sample No. Received : 14 May 2024 Lab Number : 06179657 Tested : 20 May 2024 SUMMERVILLE, SC Unique Number : 11030983 Diagnosed : 20 May 2024 - Doug Bogart US 29483 Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: AJAY EL Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Ajay@prsfuel.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (843)225-1777 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Report Id: PETSUM [WUSCAR] 06179657 (Generated: 05/27/2024 12:57:53) Rev: 1

Laboratory

Contact/Location: AJAY EL - PETSUM

PETROLEUM RECOVERY SERVICES

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