

FUEL REPORT

WJB Dorn VA Medical Center 1305 [WJB Dorn VA Medical Center 1305] BLDG 100 GEN

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (30000 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. All laboratory tests indicate that this sample meets specifications for No.2 low sulfur diesel fuel.

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		WC06185699		
Sample Date		Client Info		08 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		L4.0		
Visc @ 40°C	cSt	ASTM D445	3.0	2.57		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	61.6		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	71		
Sulfur (UVF)	ppm	ASTM D5453		69		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	172		
5% Distillation Point	°C	ASTM D86		195		
10% Distill Point	°C	ASTM D86	201	205		
15% Distillation Point	°C	ASTM D86		213		
20% Distill Point	°C	ASTM D86	216	221		
30% Distill Point	°C	ASTM D86	230	236		
40% Distill Point	°C	ASTM D86	243	249		
50% Distill Point	°C	ASTM D86	255	263		
60% Distill Point	°C	ASTM D86	267	276		
70% Distill Point	°C	ASTM D86	280	290		
80% Distill Point	°C	ASTM D86	295	305		
85% Distillation Point	°C	ASTM D86		316		
90% Distill Point	°C	ASTM D86	310	327		
95% Distillation Point	°C	ASTM D86		345		
Final Boiling Point	°C	ASTM D86	341	361		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36		
Cetane Index		ASTM D4737	<40.0	48		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
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	40		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT

>2500

ASTM D7647

ASTM D7647 >640

ASTM D7647 >80

ASTM D7647 >20

ASTM D7647 >4

ASTM D7647 >3

440

126

15

2

0

0

0

0

0

<1

0

0

<1

0

0

16/14/11

FLUID CLEANLINESS

Particles >4µm Particles >6um

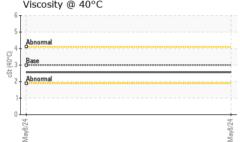
Particles >14µm

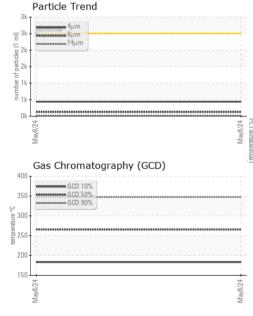
Particles >21µm

Particles >38µm

Particles >71µm

	icle Cour	nt			
491,520					T ²⁶
122,880 -					-24
30,720 Severe					-22 8
7,680 480 1,920 30 8	a				-20 46
1,920					-18 199
480					16 😪
120-					-14 m
30-					-22 (\$0 4406:1999 Cleanliness Code -18 999 Cleanliness Code -14 -12 code -10 code
8 -			<hr/>		-10 8
2-					-8
0 4µ	6µ	14µ	21µ	38µ	71µ
1000 - Severe (m 800 - Abnor 1000 - Abnor 200	mal				
May8/24					May8/24
	ositv @ 4	40°C			





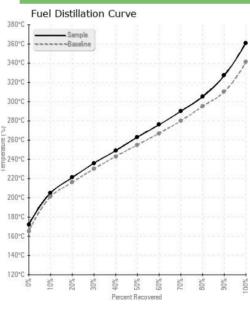
-8	Oil Cleanliness		ISO 4406 (c)	>18/16/13
-6 Πμ	HEAVY METALS		method	limit/base
	Aluminum	ppm	ASTM D5185m	<0.1
	Nickel	ppm	ASTM D5185m	<0.1
	Lead	ppm	ASTM D5185m	<0.1
	Vanadium	ppm	ASTM D5185m	<0.1
May8/24	Iron	ppm	ASTM D5185m	<0.1
	Calcium	ppm	ASTM D5185m	<0.1
	Magnesium	ppm	ASTM D5185m	<0.1
	Phosphorus	ppm	ASTM D5185m	<0.1
	Zinc	ppm	ASTM D5185m	<0.1
	SAMPLE IMAGES		method	



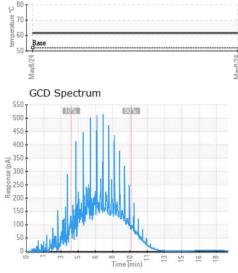
GRAPHS

Color

Bottom



Pensky-Martens Flash Point (°C)





Sample No. : WC06185699 Received : 20 May 2024 Lab Number : 06185699 Tested : 28 May 2024 SUMMERVILLE, SC Unique Number : 11037025 Diagnosed : 28 May 2024 - Elizabeth Valachovic 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. 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] 06185699 (Generated: 05/28/2024 15:43:01) Rev: 1

Laboratory

Contact/Location: AJAY EL - PETSUM

PETROLEUM RECOVERY SERVICES

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US 29483

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