

### 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

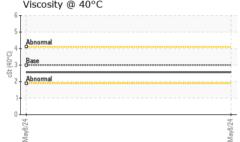
Particles >14µm

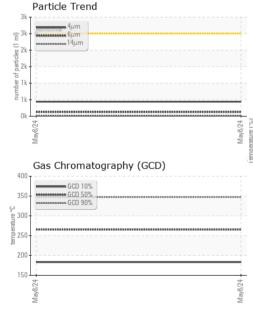
Particles >21µm

Particles >38µm

Particles >71µm

	icle Cour	nt			
491,520					T <sup>26</sup>
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			





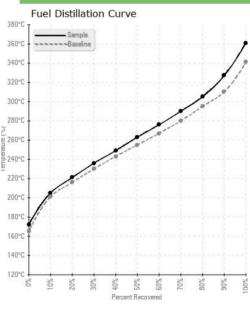
-8	Oil Cleanliness		ISO 4406 (c)	>18/16/13
-6 Πμ	HEAVY METALS		method	limit/base
	Aluminum	ppm	ASTM D5185m	<0.1
	Nickel	ppm	ASTM D5185m	<0.1
	Lead	ppm	ASTM D5185m	<0.1
	Vanadium	ppm	ASTM D5185m	<0.1
May8/24	Iron	ppm	ASTM D5185m	<0.1
	Calcium	ppm	ASTM D5185m	<0.1
	Magnesium	ppm	ASTM D5185m	<0.1
	Phosphorus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



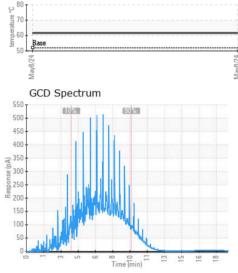
#### GRAPHS

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

Page 2 of 2

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