

FUEL REPORT

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

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (660 GAL)

DIAGNOSIS

Recommendation

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

Corrosion

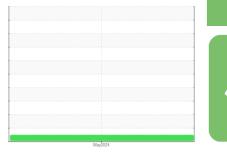
All metal levels are normal indicating no corrosion in the system.

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. Sulfur level is acceptable for ULSD specification.



Sample Rating Trend



NORMAL

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06185700		
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	2.59		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	65.3		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	176		
5% Distillation Point	°C	ASTM D86		196		
10% Distill Point	°C	ASTM D86	201	205		
15% Distillation Point	°C	ASTM D86		212		
20% Distill Point	°C	ASTM D86	216	220		
30% Distill Point	°C	ASTM D86	230	235		
40% Distill Point	°C	ASTM D86	243	248		
50% Distill Point	°C	ASTM D86	255	262		
60% Distill Point	°C	ASTM D86	267	276		
70% Distill Point	°C	ASTM D86	280	289		
80% Distill Point	°C	ASTM D86	295	305		
85% Distillation Point	°C	ASTM D86		315		
90% Distill Point	°C	ASTM D86	310	326		
95% Distillation Point		ASTM D86		344		
Final Boiling Point	°C	ASTM D86	341	360		
IGNITION QUALI	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	0.003		
ppm Water	ppm	ASTM D6304	<500	30		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



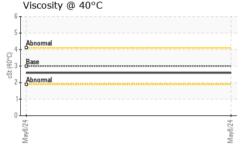
FUEL REPORT

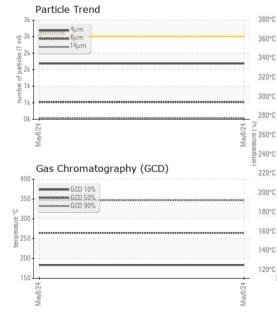
FLUID CLEANLINESS

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$\begin{array}{c} 30,720 \\ \textbf{Severe} \\ 7,680 \\ \textbf{Anormal} \\ 1,920 \\ 480 \\ 120 \\ 30 \\ \textbf{a}_{2} \\ \textbf{b}_{2} \\ \textbf{b}_{2} \\ \textbf{b}_{2} \\ \textbf{b}_{3} \\ \textbf{Water (KF)} \\ \textbf{Water (KF)} \\ \textbf{Water (KF)} \\ \textbf{b}_{3} \\ \textbf{b}_{4} \\ \textbf{b}_{4} \\ \textbf{b}_{4} \\ \textbf{c}_{4} \\$	T ²⁶
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Water (KF)	-8
Water (KF)	71µ
200 -	
May6/24	May8/24





	Particles >4µm		ASTM D7647	>2500	1685		-
	Particles >6µm		ASTM D7647	>640	516		-
	Particles >14µm		ASTM D7647	>80	36		-
	Particles >21µm		ASTM D7647	>20	7		-
	Particles >38µm		ASTM D7647	>4	0		-
	Particles >71µm		ASTM D7647	>3	0		-
	Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/16/12		-
	HEAVY METALS		method	limit/base	current	history1	
	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	<1		-
	Iron	ppm	ASTM D5185m	<0.1	0		-
	Calcium	ppm	ASTM D5185m	<0.1	0		-
	Magnesium	ppm	ASTM D5185m	<0.1	<1		-
	Phosphorus	ppm	ASTM D5185m	<0.1	0		-
	Zinc	ppm	ASTM D5185m	<0.1	0		-
	SAMPLE IMAGES	\$	method	limit/base	current	history1	
	SAMPLE IMAGES	6	method	limit/base	current	history1 no image	1
			method	limit/base	current		1
	Color	3	method	limit/base	current	no image	1
2800	Color Bottom GRAPHS Fuel Distillation Cu		method		Pensky-Marte	no image	، ۲ °C)
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350 ¥ 300 250 8 200 150 100 50 1, 16 20 Time (min)



PETROLEUM RECOVERY SERVICES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC06185700 Received 210 POWELL DR : 20 May 2024 Lab Number : 06185700 Tested : 28 May 2024 SUMMERVILLE, SC Unique Number : 11037026 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. T: (843)225-1777 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Percent Recovered

%0L 80%

80%

%00

90%

30% 40% 20%

20%

%0 10%

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Contact/Location: AJAY EL - PETSUM

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