



FUEL REPORT

Sample Rating Trend



NORMAL



Area

JE A JACKSONVILLE FL [9666]

Machine Id

[JE A JACKSONVILLE FL] GEN-0175

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (250 GAL)

DIAGNOSIS

Recommendation

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

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

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0953783	---	---
Sample Date	Client Info			23 Jun 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	0.849	---	---
Fuel Color	text	*Visual Screen	Yellow	Red	---	---
ASTM Color	scalar	*ASTM D1500		L4.5	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.83	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	76.4	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	---	---
Sulfur (UVF)	ppm	ASTM D5453		279	---	---

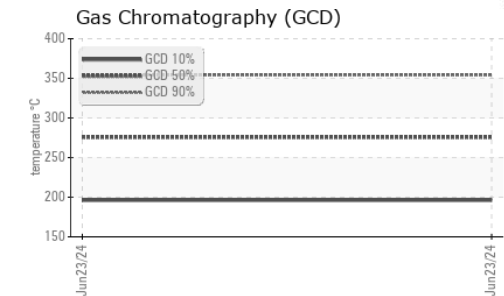
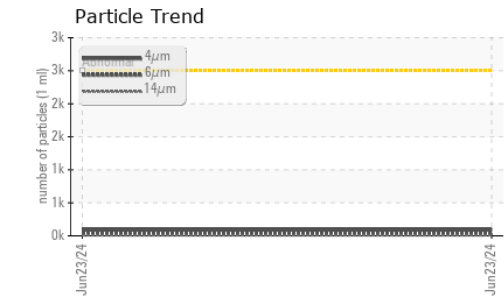
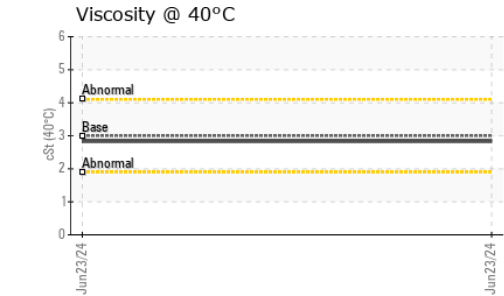
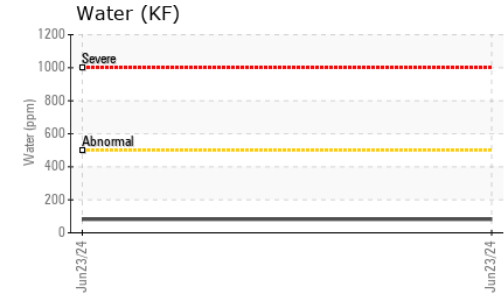
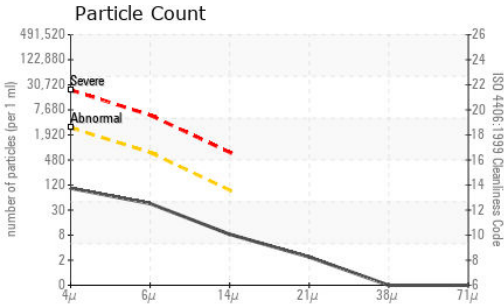
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	187	---	---
5% Distillation Point	°C	ASTM D86		208	---	---
10% Distill Point	°C	ASTM D86	201	217	---	---
15% Distillation Point	°C	ASTM D86		225	---	---
20% Distill Point	°C	ASTM D86	216	232	---	---
30% Distill Point	°C	ASTM D86	230	246	---	---
40% Distill Point	°C	ASTM D86	243	260	---	---
50% Distill Point	°C	ASTM D86	255	274	---	---
60% Distill Point	°C	ASTM D86	267	288	---	---
70% Distill Point	°C	ASTM D86	280	302	---	---
80% Distill Point	°C	ASTM D86	295	317	---	---
85% Distillation Point	°C	ASTM D86		324	---	---
90% Distill Point	°C	ASTM D86	310	332	---	---
95% Distillation Point	°C	ASTM D86		346	---	---
Final Boiling Point	°C	ASTM D86	341	350	---	---
Distillation Residue	%	ASTM D86	3.0	1.4	---	---
Distillation Loss	%	ASTM D86	3.0	0.7	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	35.2	---	---
Cetane Index		ASTM D4737	<40.0	48.5	---	---

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	0.008	---	---
ppm Water	ppm	ASTM D6304	<500	82	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	7.8	---	---



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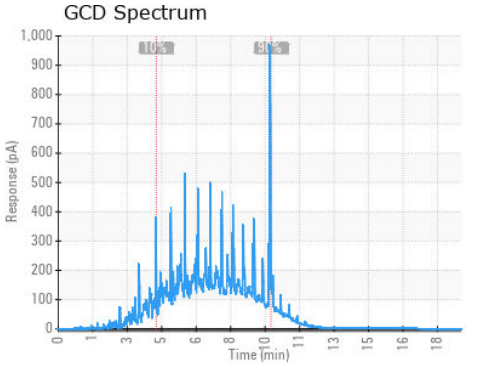
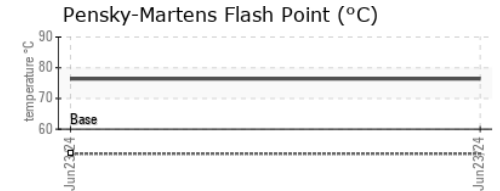
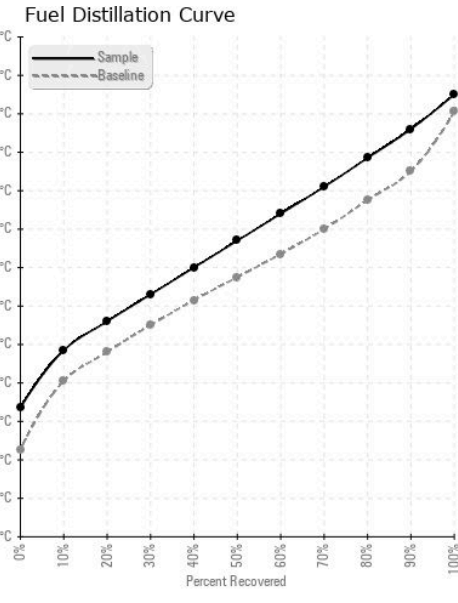


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	89	---	---
Particles >6µm	ASTM D7647	>640	38	---	---
Particles >14µm	ASTM D7647	>80	7	---	---
Particles >21µm	ASTM D7647	>20	2	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	14/12/10	---	---

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	<1	---	---
Iron	ppm	ASTM D5185m <0.1	0	---	---
Calcium	ppm	ASTM D5185m <0.1	0	---	---
Magnesium	ppm	ASTM D5185m <0.1	0	---	---
Phosphorus	ppm	ASTM D5185m <0.1	0	---	---
Zinc	ppm	ASTM D5185m <0.1	0	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0953783 **Received** : 24 Jun 2024
Lab Number : **06217675** **Tested** : 26 Jun 2024
Unique Number : 11090539 **Diagnosed** : 26 Jun 2024 - Elizabeth Valachovic
Test Package : DF-2 (Additional Tests: Fuel, Screen)

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)