



# FUEL REPORT

Sample Rating Trend



ISO



Area

**JE A JACKSONVILLE FL [14579]**

Machine Id

**[JE A JACKSONVILLE FL] GEN-0429**

Component

**Diesel Fuel**

Fluid

**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (500 GAL)**

## DIAGNOSIS

### Recommendation

We advise that you filter this fluid before use. 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 a high amount of particulates present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. 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			<b>WC0957703</b>	---	---
Sample Date	Client Info			<b>23 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	<b>0.843</b>	---	---
Fuel Color	text	*Visual Screen	Yllow	<b>Red</b>	---	---
ASTM Color	scalar	*ASTM D1500		<b>L4.5</b>	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.79</b>	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	<b>76.1</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	<b>130</b>	---	---
Sulfur (UVF)	ppm	ASTM D5453		<b>79</b>	---	---

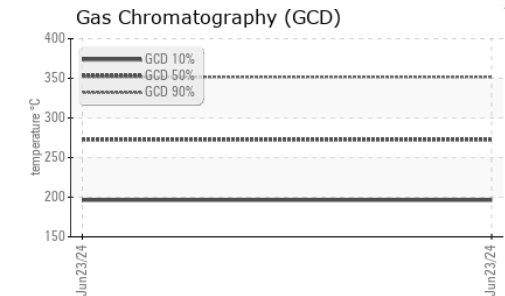
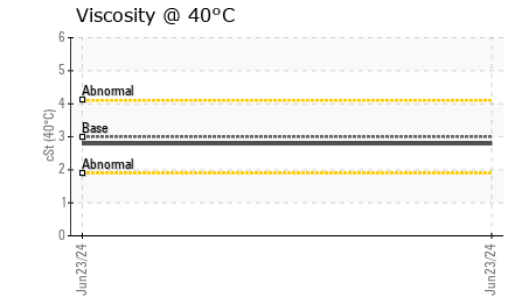
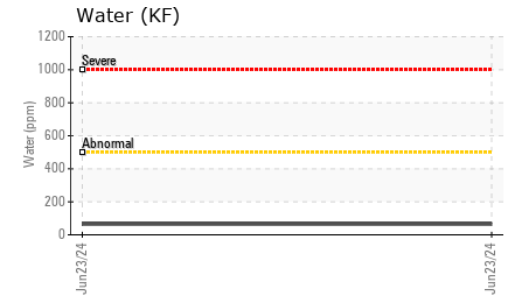
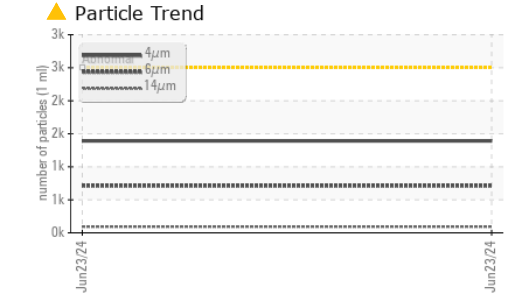
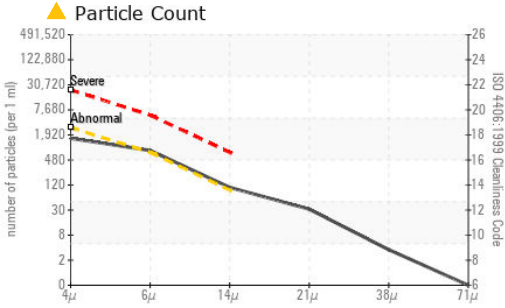
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	<b>189</b>	---	---
5% Distillation Point	°C	ASTM D86		<b>209</b>	---	---
10% Distill Point	°C	ASTM D86	201	<b>217</b>	---	---
15% Distillation Point	°C	ASTM D86		<b>225</b>	---	---
20% Distill Point	°C	ASTM D86	216	<b>232</b>	---	---
30% Distill Point	°C	ASTM D86	230	<b>242</b>	---	---
40% Distill Point	°C	ASTM D86	243	<b>256</b>	---	---
50% Distill Point	°C	ASTM D86	255	<b>269</b>	---	---
60% Distill Point	°C	ASTM D86	267	<b>282</b>	---	---
70% Distill Point	°C	ASTM D86	280	<b>296</b>	---	---
80% Distill Point	°C	ASTM D86	295	<b>310</b>	---	---
85% Distillation Point	°C	ASTM D86		<b>319</b>	---	---
90% Distill Point	°C	ASTM D86	310	<b>329</b>	---	---
95% Distillation Point	°C	ASTM D86		<b>344</b>	---	---
Final Boiling Point	°C	ASTM D86	341	<b>355</b>	---	---
Distillation Residue	%	ASTM D86	3.0	<b>1.4</b>	---	---
Distillation Loss	%	ASTM D86	3.0	<b>0.8</b>	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	<b>36.4</b>	---	---
Cetane Index		ASTM D4737	<40.0	<b>50.1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	---	---
Sodium	ppm	ASTM D5185m	<0.1	<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	---	---
Water	%	ASTM D6304	<0.05	<b>0.006</b>	---	---
ppm Water	ppm	ASTM D6304	<500	<b>65</b>	---	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	---	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	---	---



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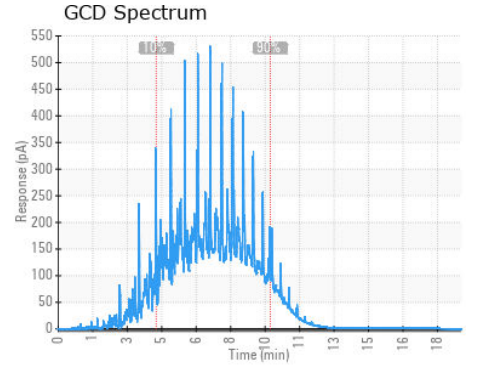
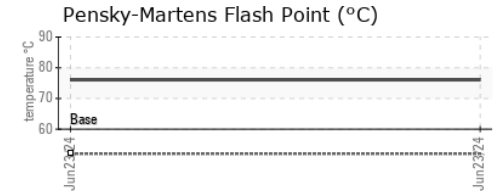
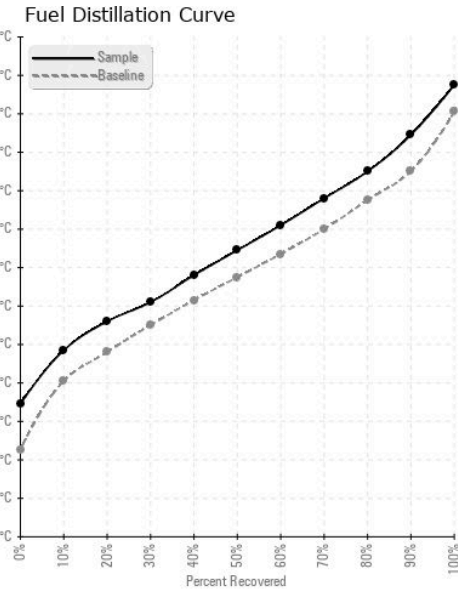


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>1391</b>	---	---
Particles >6µm	ASTM D7647	>640	<b>713</b>	---	---
Particles >14µm	ASTM D7647	>80	<b>93</b>	---	---
Particles >21µm	ASTM D7647	>20	<b>28</b>	---	---
Particles >38µm	ASTM D7647	>4	<b>3</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>18/17/14</b>	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Lead	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Iron	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Calcium	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m <0.1	<b>1</b>	---	---
Phosphorus	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Zinc	ppm	ASTM D5185m <0.1	<b>0</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0957703 **Received** : 24 Jun 2024  
**Lab Number** : **06218701** **Tested** : 02 Jul 2024  
**Unique Number** : 11096898 **Diagnosed** : 02 Jul 2024 - Elizabeth Valachovic  
**Test Package** : DF-2 ( Additional Tests: Fuel, Screen )

**PETROLEUM RECOVERY SERVICES**  
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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)