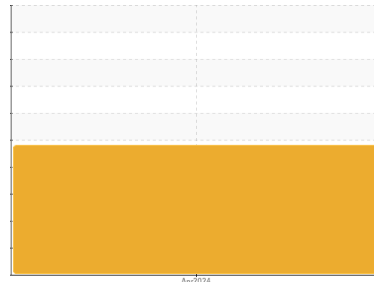




# FUEL REPORT

Sample Rating Trend



**WATER**



Machine Id  
**MAGNA ONE CITY OF MARION (S/N UJ19-52930-812)**  
 Component  
**Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

### Corrosion

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

### Contaminants

There is a high amount of particulates present in the fuel. Moderate concentration of visible dirt/debris present in the fuel. There is a light concentration of water present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample.

### 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>WC0901801</b>	---	---
Sample Date	Client Info			<b>09 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		<b>L5.5</b>	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.23</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	<b>139</b>	---	---
Sulfur (UVF)	ppm	ASTM D5453		<b>120</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185m	<0.1	<b>1</b>	---	---
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Water	%	ASTM D6304	<0.05	<b>▲ 0.110</b>	---	---
ppm Water	ppm	ASTM D6304	<500	<b>▲ 1106</b>	---	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	---	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	---	---

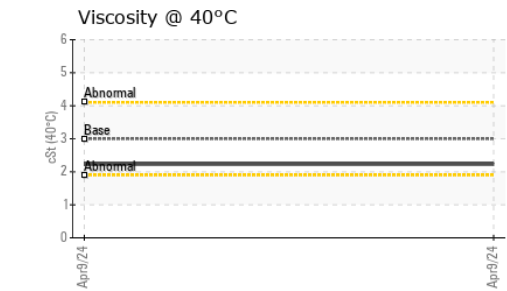
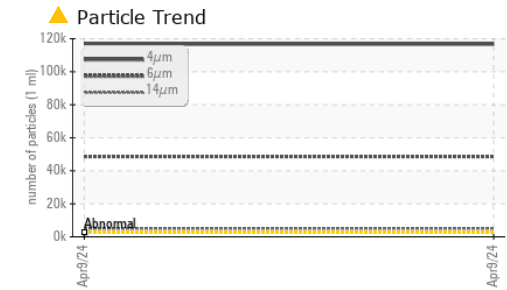
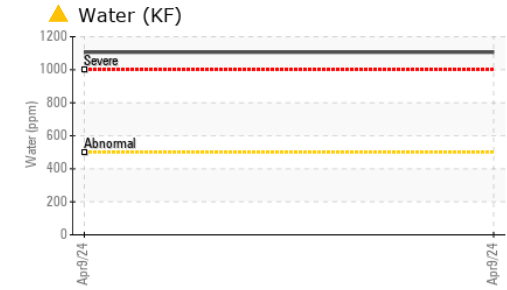
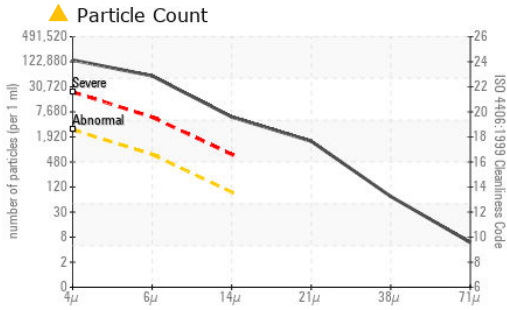
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>▲ 116716</b>	---	---
Particles >6µm		ASTM D7647	>640	<b>▲ 48640</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>▲ 5044</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>▲ 1329</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>▲ 63</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>▲ 5</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>▲ 24/23/20</b>	---	---

MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	<b>0</b>	---	---
Yeast	CFU/ml	WC-Method	>=100000	<b>0</b>	---	---
Mold	Colonies	WC-Method	MODER	<b>---</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>&lt;1</b>	---	---
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Calcium	ppm	ASTM D5185m	<0.1	<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	---	---
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---



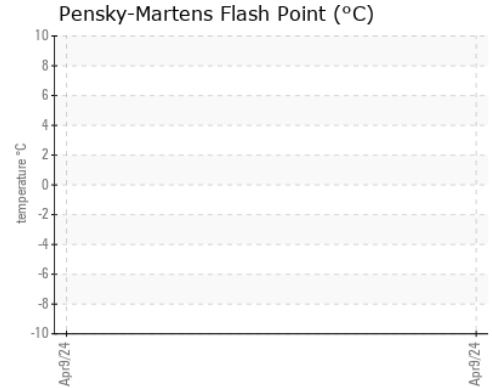
# FUEL REPORT



## SAMPLE IMAGES

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901801 **Received** : 09 Apr 2024  
**Lab Number** : 06143486 **Tested** : 22 Apr 2024  
**Unique Number** : 10968294 **Diagnosed** : 22 Apr 2024 - Doug Bogart  
**Test Package** : DF-5 ( Additional Tests: Bacteria, Screen )

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)

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