

### **FUEL REPORT**

Sample Rating Trend

ISO

# Machine Id

Component Diesel Fuel Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

#### DIAGNOSIS

#### A 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 silt (particulates < 14 microns in size) present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

#### **Fuel Condition**

Sulfur value derived by ASTM D5453 method for ULSD validation.

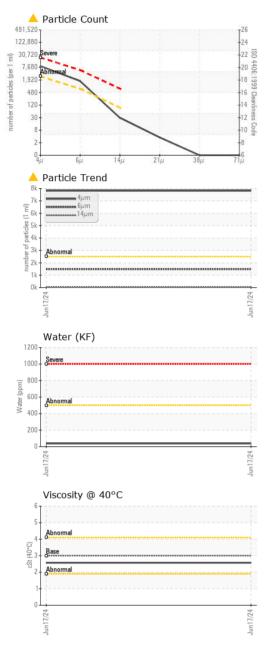
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901787		
Sample Date		Client Info		17 Jun 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	PERTIES	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.57		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	51		
Sulfur (UVF)	ppm	ASTM D5453		22		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
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	38		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u> </u>		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	26		
Particles >21µm		ASTM D7647	>20	3		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>20/18/12</b>		
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	<1		
Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

Contact/Location: PAIGE ? - CARSHE Page 1 of 2



## **FUEL REPORT**

GRAPHS



Pensky-Martens Flash Point (°C)									
	<sup>10</sup>								
	8								
	6								
	4								
ې	2								
temperature °C									
perat	0								
tem	-2								
	4								
	-6-								
	-0								
	-8 -								
	10								
	-101	24 +							
	Jun 17/24	Jun17/24							
	Jur	Jur							

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **CAROLINA POWER SOLUTION** Laboratory Sample No. : WC0901787 Received : 17 Jun 2024 445 W GROVER ST Lab Number : 06212277 Tested : 21 Jun 2024 SHELBY, NC Unique Number : 11085141 Diagnosed : 21 Jun 2024 - Doug Bogart US 28150 Test Package : DF-5 (Additional Tests: Screen) Contact: PAIGE Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. paige@carolinapowersolutions.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)481-0782 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: PAIGE ? - CARSHE Page 2 of 2