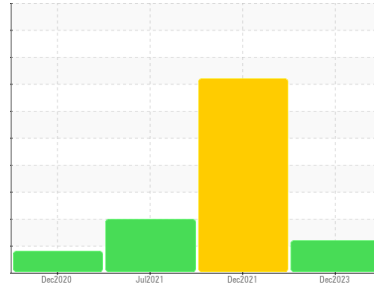




# FUEL REPORT

Sample Rating Trend



ISO



Area  
**[1882884]**  
 Machine Id  
**19-GRES-01-004-F BULK TANK**  
 Component  
**Tank Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)**

## DIAGNOSIS

### Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you filter this fluid before use. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

### Corrosion

{not applicable}

### Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

### Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0786866</b>	WC	WC0560837
Sample Date	Client Info	<b>23 Dec 2023</b>	01 Dec 2021	17 Jul 2021
Machine Age	hrs	<b>0</b>	0	0
Sample Status		<b>ABNORMAL</b>	SEVERE	ABNORMAL

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	<b>0.826</b>	0.827	0.835	
Fuel Color	text	Visual Screen*	Yellow	<b>Red</b>	Pink	Pink
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>2</b>	2.4	2.1
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>51.8</b>	58.3	50

## SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185(m)	10	<b>10</b>	8	10

## DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	<b>158</b>	161	155
5% Distillation Point	°C	ASTM D2887*		<b>175</b>	182	171
10% Distill Point	°C	ASTM D2887*	201	<b>182</b>	189	181
15% Distillation Point	°C	ASTM D2887*		<b>189</b>	197	187
20% Distill Point	°C	ASTM D2887*	216	<b>196</b>	205	195
30% Distill Point	°C	ASTM D2887*	230	<b>210</b>	221	211
40% Distill Point	°C	ASTM D2887*	243	<b>225</b>	238	226
50% Distill Point	°C	ASTM D2887*	255	<b>239</b>	253	242
60% Distill Point	°C	ASTM D2887*	267	<b>255</b>	267	258
70% Distill Point	°C	ASTM D2887*	280	<b>270</b>	282	274
80% Distill Point	°C	ASTM D2887*	295	<b>288</b>	299	292
85% Distillation Point	°C	ASTM D2887*		<b>300</b>	310	304
90% Distill Point	°C	ASTM D2887*	310	<b>312</b>	323	317
95% Distillation Point	°C	ASTM D2887*		<b>332</b>	339	338
Final Boiling Point	°C	ASTM D2887*	341	<b>349</b>	345	▲ 363

## IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	<b>39</b>	39	37
Cetane Index	ASTM D4737*	<40.0	<b>48</b>	51	45

## CONTAMINANTS

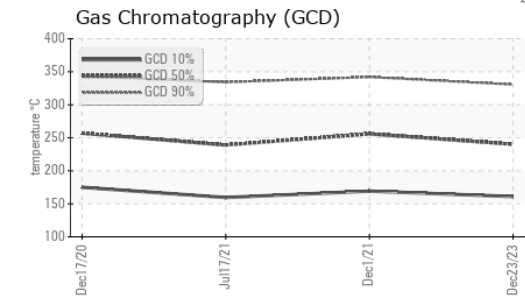
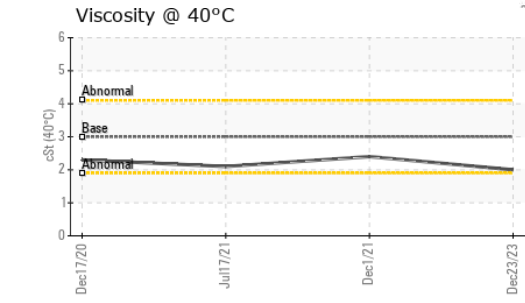
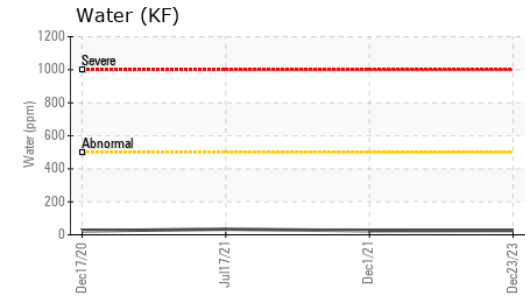
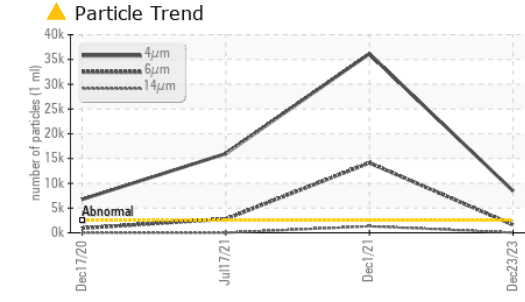
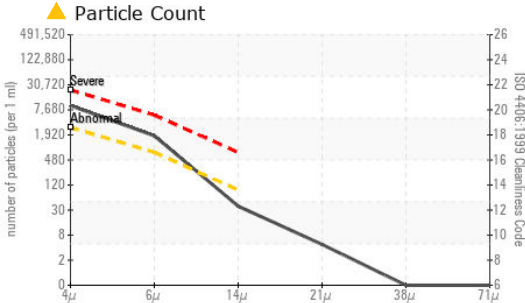
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	<1	0
Sodium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	0	<1
Potassium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	0	0
Water	%	ASTM D6304*	<0.05	<b>0.003</b>	0.002	0.003
ppm Water	ppm	ASTM D6304*	<500	<b>26</b>	24.6	34.4

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	▲ <b>8434</b>	36149	▲ 15988
Particles >6µm	ASTM D7647	>640	▲ <b>1601</b>	14135	▲ 2771
Particles >14µm	ASTM D7647	>80	<b>33</b>	1327	22
Particles >21µm	ASTM D7647	>20	<b>4</b>	314	2
Particles >38µm	ASTM D7647	>4	<b>0</b>	▲ 15	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ <b>20/18/12</b>	22/21/18	▲ 21/19/12



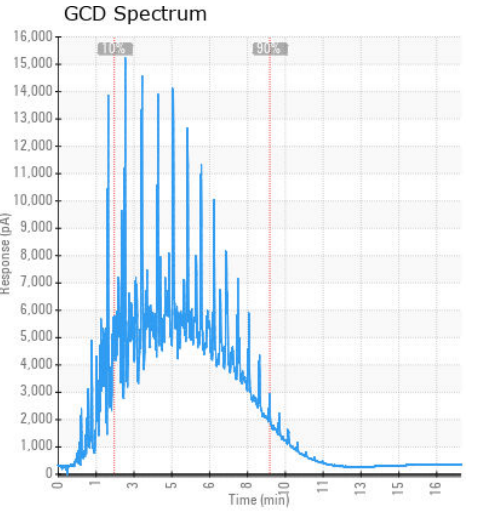
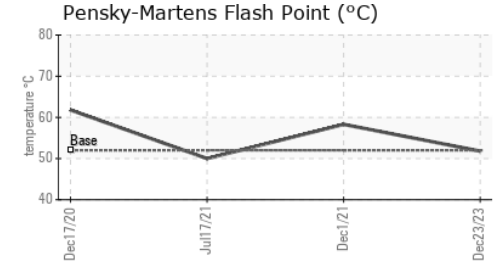
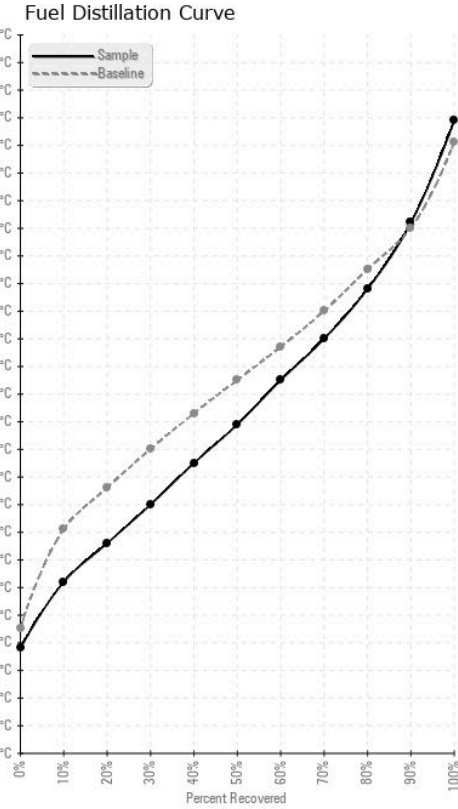
# FUEL REPORT



HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	<1
Nickel	ppm	ASTM D5185(m)	<0.1	0	<1
Lead	ppm	ASTM D5185(m)	<0.1	0	▲ 3
Vanadium	ppm	ASTM D5185(m)	<0.1	0	0
Iron	ppm	ASTM D5185(m)	<0.1	0	<1
Calcium	ppm	ASTM D5185(m)	<0.1	0	0
Magnesium	ppm	ASTM D5185(m)	<0.1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	0
Zinc	ppm	ASTM D5185(m)	<0.1	0	<1

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0786886 **Received** : 05 Jan 2024  
**Lab Number** : 02606856 **Diagnosed** : 08 Jan 2024  
**Unique Number** : 5707942 **Diagnostician** : Kevin Marson  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount )  
 To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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