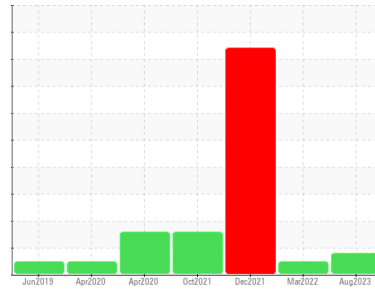




# FUEL REPORT

Sample Rating Trend



ISO



Area  
**[13898420]**  
 Machine Id  
**Z-7101A MPG A**  
 Component  
**Main 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. Resample at the next service interval to monitor.

### Corrosion

{not applicable}

### Contaminants

There is a light amount of silt (particulates < 14 microns in size) present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample. 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).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PP</b>	PP	PP
Sample Date	Client Info			<b>06 Aug 2023</b>	30 Mar 2022	17 Dec 2021
Machine Age	hrs Client Info			<b>0</b>	0	0
Sample Status				<b>ATTENTION</b>	NORMAL	SEVERE

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*	0.839	<b>0.837</b>	0.845	0.844	
Fuel Color	text Visual Screen*	Yllow	<b>Yllow</b>	Yllow	Yllow	
Visc @ 40°C	cSt ASTM D7279(m)	3.0	<b>2.9</b>	2.8	2.7	
Pensky-Martens Flash Point	°C ASTM D7215*	52	<b>64.6</b>	54.3	57.8	
Cloud Point	°C ASTM D2500*		<b>-16</b>	-20	-12	

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185(m)	10	<b>6</b>	9	9	

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	<b>175</b>	153	156
5% Distillation Point	°C	ASTM D2887*		<b>196</b>	183	187
10% Distill Point	°C	ASTM D2887*	201	<b>208</b>	195	199
15% Distillation Point	°C	ASTM D2887*		<b>217</b>	204	208
20% Distill Point	°C	ASTM D2887*	216	<b>225</b>	213	216
30% Distill Point	°C	ASTM D2887*	230	<b>241</b>	227	231
40% Distill Point	°C	ASTM D2887*	243	<b>255</b>	240	244
50% Distill Point	°C	ASTM D2887*	255	<b>268</b>	252	256
60% Distill Point	°C	ASTM D2887*	267	<b>282</b>	266	269
70% Distill Point	°C	ASTM D2887*	280	<b>296</b>	280	283
80% Distill Point	°C	ASTM D2887*	295	<b>311</b>	296	299
85% Distillation Point	°C	ASTM D2887*		<b>322</b>	306	308
90% Distill Point	°C	ASTM D2887*	310	<b>333</b>	318	319
95% Distillation Point	°C	ASTM D2887*		<b>350</b>	336	336
Final Boiling Point	°C	ASTM D2887*	341	<b>367</b>	360	346

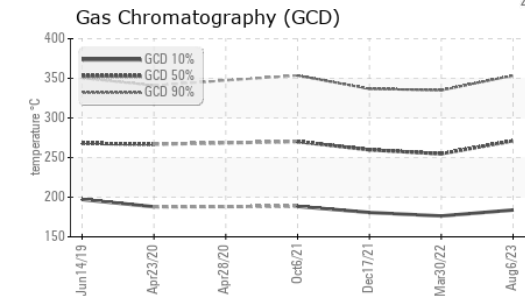
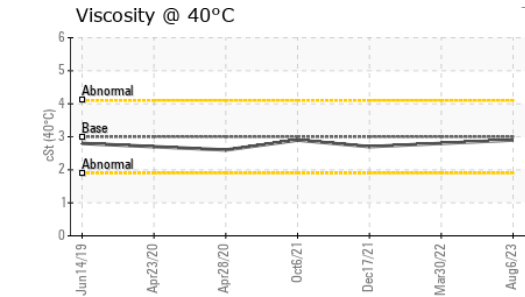
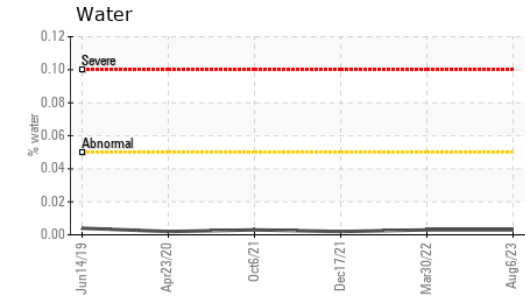
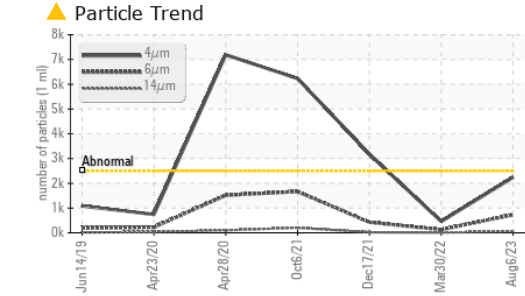
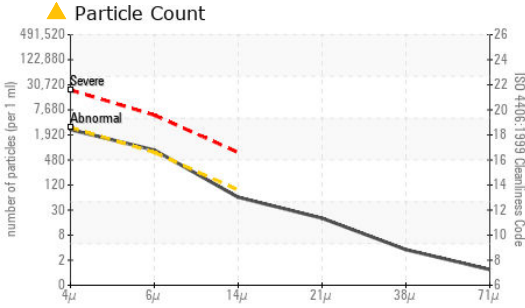
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	<b>37</b>	35	36	
Cetane Index	ASTM D4737*	<40.0	<b>51</b>	44	45	

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304*	<0.05	<b>0.003</b>	0.003	0.002
ppm Water	ppm	ASTM D6304*	<500	<b>25.2</b>	28.0	17.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>2243</b>	458	▲ 3176	
Particles >6µm	ASTM D7647	>640	<b>728</b>	129	425	
Particles >14µm	ASTM D7647	>80	<b>54</b>	7	19	
Particles >21µm	ASTM D7647	>20	<b>17</b>	2	3	
Particles >38µm	ASTM D7647	>4	<b>3</b>	0	0	
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	0	



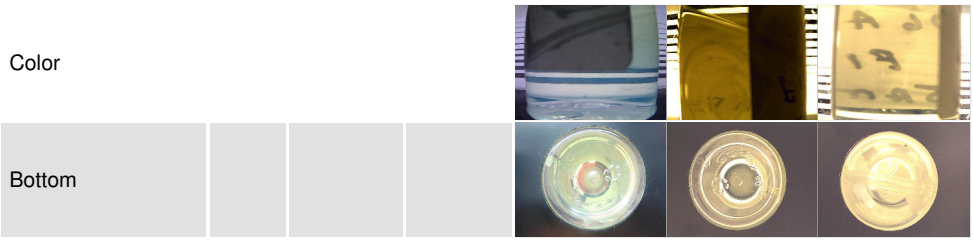
# FUEL REPORT



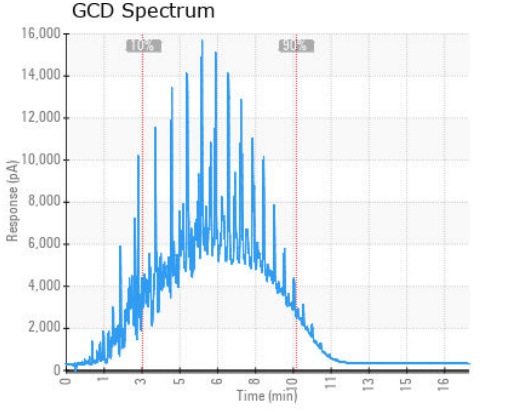
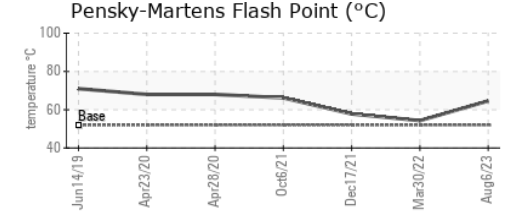
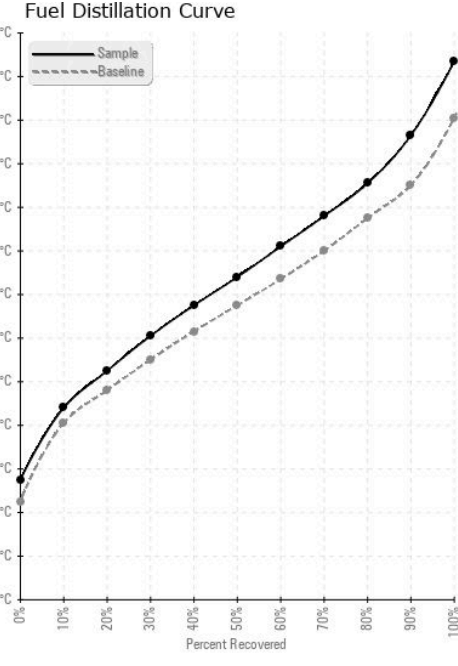
MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml ASTM D6469*	>=100000	0	0	0
Yeast	CFU/ml ASTM D6469*	>=100000	0	0	▲ 10000
Mold	Colonies ASTM D6469*	MODER	NONE	NONE	● HEAVY

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

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HIBERNIA MGMT & DEVELOPMENT CO. LTD  
**Sample No.** : PP **Received** : 21 Aug 2023 SUITE 1000,, 100 NEW GOWER STREET  
**Lab Number** : 02577284 **Diagnosed** : 25 Aug 2023 ST.JOHNS, NL  
**Unique Number** : 5630344 **Diagnostician** : Kevin Marson CA A1C 6K3  
**Test Package** : FUEL ( Additional Tests: Bacteria, CC Flash, CldPt, GC-PerFuel, PrtCount, Sediment ) Contact: Sam Nash  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. samantha.m.nash@exxonmobil.com  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:  
 Validity of results and interpretation are based on the sample and information as supplied. F: (709)722-3766