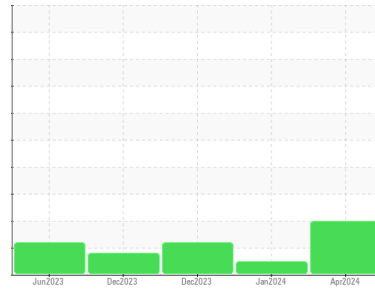




# FUEL REPORT

Sample Rating Trend



ISO



Machine Id  
**4100 GORDON BAKER**  
 Component  
**Diesel Fuel**  
 Fluid  
**DISEL FUEL No. 2 (--- GAL)**

## DIAGNOSIS

### Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you filter this fluid before use. We recommend an early resample to monitor this condition.

### Contaminants

There is a moderate amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

### Fuel Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PP0001062</b>	PP0000906	PP0000904
Sample Date	Client Info			<b>03 Apr 2024</b>	24 Jan 2024	29 Dec 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.850	<b>0.842</b>	0.857	0.852
Fuel Color	text	Visual Screen*	YELLOW	<b>Red</b>	Red	Orang
Visc @ 40°C	cSt	ASTM D7279(m)	4.1	<b>2.7</b>	2.4	2.3
Pensky-Martens Flash Point	°C	ASTM D7215*	40	<b>57.2</b>	65.4	63.2

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)		<b>7</b>	14	13

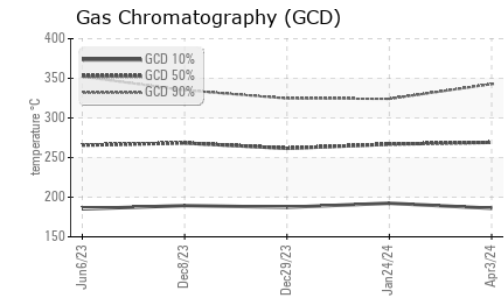
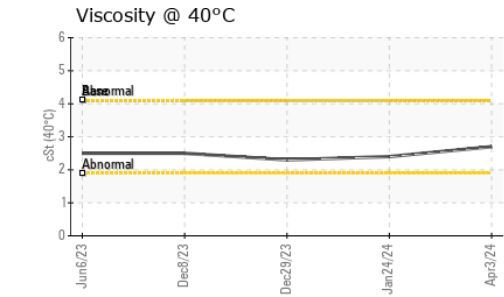
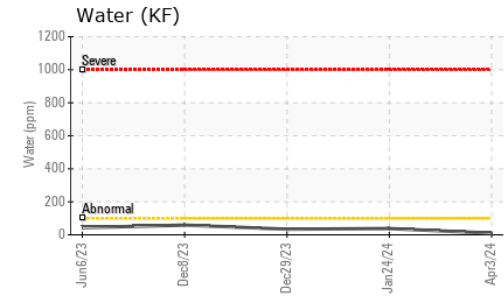
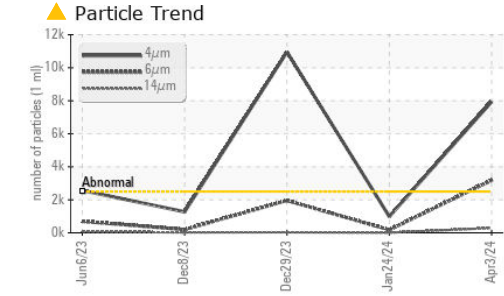
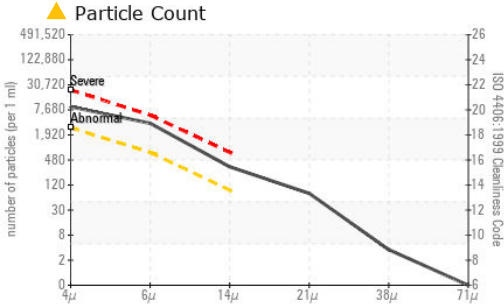
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	174	<b>169</b>	177	174
5% Distillation Point	°C	ASTM D2887*		<b>197</b>	203	199
10% Distill Point	°C	ASTM D2887*	186	<b>208</b>	214	209
15% Distillation Point	°C	ASTM D2887*		<b>216</b>	222	217
20% Distill Point	°C	ASTM D2887*	206	<b>224</b>	230	225
30% Distill Point	°C	ASTM D2887*	226	<b>239</b>	243	237
40% Distill Point	°C	ASTM D2887*	245	<b>252</b>	253	248
50% Distill Point	°C	ASTM D2887*	260	<b>266</b>	263	258
60% Distill Point	°C	ASTM D2887*	272	<b>278</b>	272	268
70% Distill Point	°C	ASTM D2887*	285	<b>290</b>	282	278
80% Distill Point	°C	ASTM D2887*	315	<b>303</b>	291	290
85% Distillation Point	°C	ASTM D2887*		<b>314</b>	298	298
90% Distill Point	°C	ASTM D2887*	360	<b>324</b>	304	306
95% Distillation Point	°C	ASTM D2887*		<b>344</b>	315	320
Final Boiling Point	°C	ASTM D2887*	>360	<b>372</b>	331	346

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	35.0	<b>36</b>	33	34
Cetane Index		ASTM D4737*	<40.0	<b>49</b>	42	43

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	0	0
Water	%	ASTM D6304*	<0.05	<b>0.001</b>	0.003	0.003
ppm Water	ppm	ASTM D6304*	<500	<b>10</b>	38	34

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>▲ 7938</b>	986	▲ 10953
Particles >6µm		ASTM D7647	>640	<b>▲ 3188</b>	180	▲ 1956
Particles >14µm		ASTM D7647	>80	<b>▲ 290</b>	8	32
Particles >21µm		ASTM D7647	>20	<b>▲ 67</b>	2	5
Particles >38µm		ASTM D7647	>4	<b>3</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>▲ 20/19/15</b>	17/15/10	▲ 21/18/12

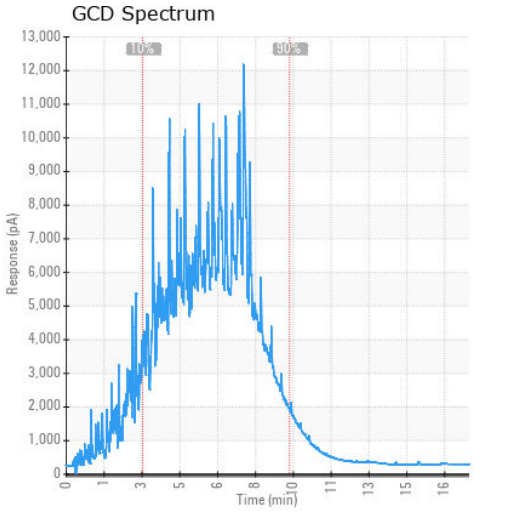
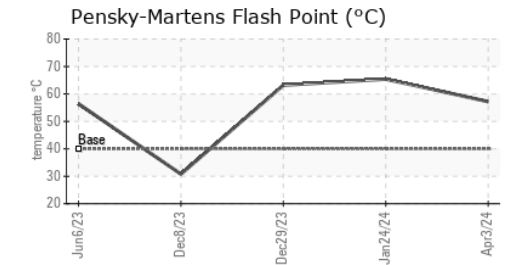
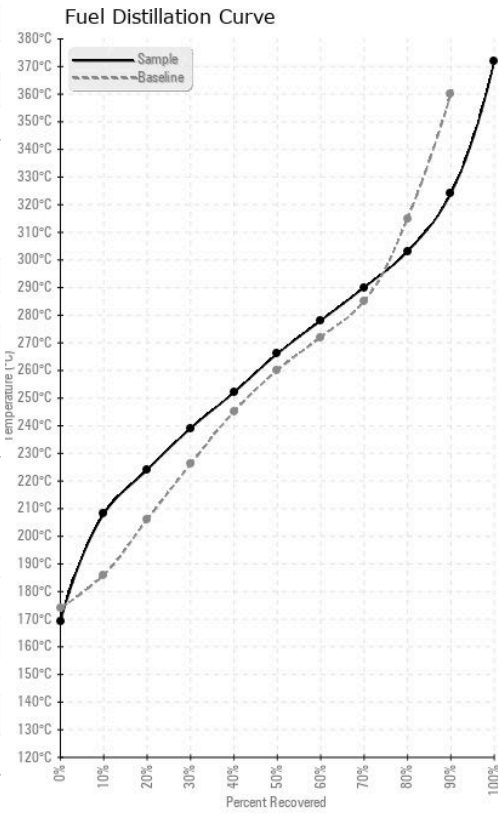
# FUEL REPORT



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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP0001062  
**Lab Number** : 02629399  
**Unique Number** : 5762531  
**Test Package** : FUEL ( Additional Tests: CC Flash, PrtCount )

**BMO Financial Group**  
 4100 Gordon Baker Road., SCC A2W011  
 Toronto, ON  
 CA M1W 3E8

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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