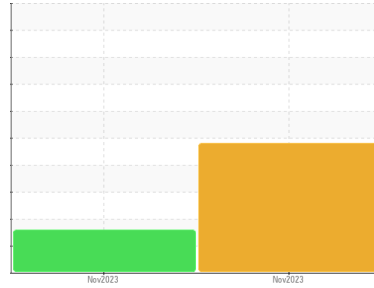




FUEL REPORT

Sample Rating Trend



WATER



Machine Id
WL0348

Component
Diesel Fuel
Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. 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 light amount of silt (particulates < 14 microns in size) present in the fuel. Excessive free water present. NOTE: coolant refractometer measures 50% EG, indicating the presence of glycol.

Fuel Condition

The fuel is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0099580	GFL0099581	---
Sample Date	Client Info	29 Nov 2023	20 Nov 2023	---
Machine Age	hrs Client Info	6620	6620	---
Sample Status		ABNORMAL	ABNORMAL	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2	
Specific Gravity	ASTM D1298*	0.839	0.848	0.847	---
Fuel Color	text Visual Screen*	Yellow	Red	Red	---
Visc @ 40°C	cSt ASTM D7279(m)	3.0	2.2	2.2	---
Pensky-Martens Flash Point	°C ASTM D7215*	52	53.9	52.2	---

SULFUR CONTENT

method	limit/base	current	history1	history2	
Sulfur	ppm ASTM D5185(m)	10	15	13	---

DISTILLATION

method	limit/base	current	history1	history2	
Initial Boiling Point	°C ASTM D2887*	165	165	163	---
5% Distillation Point	°C ASTM D2887*		184	183	---
10% Distill Point	°C ASTM D2887*	201	194	193	---
15% Distillation Point	°C ASTM D2887*		201	201	---
20% Distill Point	°C ASTM D2887*	216	209	208	---
30% Distill Point	°C ASTM D2887*	230	224	223	---
40% Distill Point	°C ASTM D2887*	243	237	236	---
50% Distill Point	°C ASTM D2887*	255	250	249	---
60% Distill Point	°C ASTM D2887*	267	264	263	---
70% Distill Point	°C ASTM D2887*	280	278	277	---
80% Distill Point	°C ASTM D2887*	295	294	293	---
85% Distillation Point	°C ASTM D2887*		306	304	---
90% Distill Point	°C ASTM D2887*	310	317	316	---
95% Distillation Point	°C ASTM D2887*		335	334	---
Final Boiling Point	°C ASTM D2887*	341	355	353	---

IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	35	35	---
Cetane Index	ASTM D4737*	<40.0	43	43	---

CONTAMINANTS

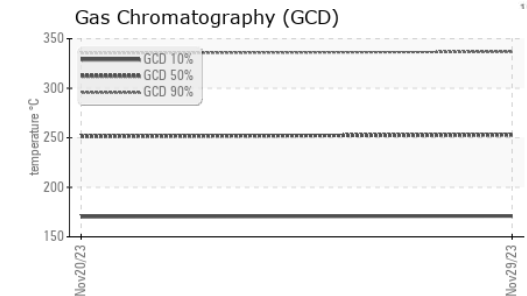
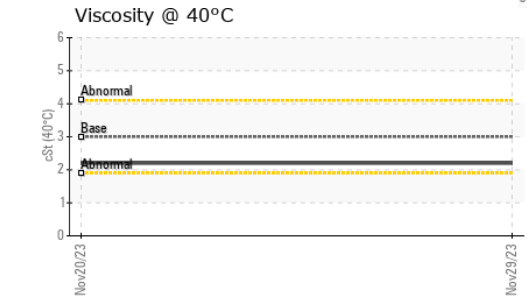
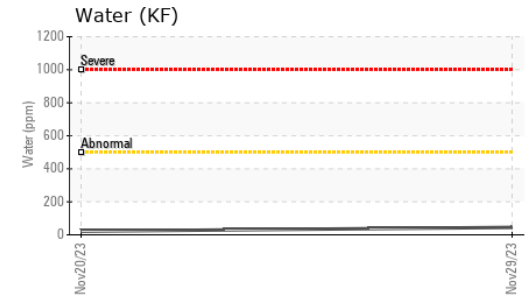
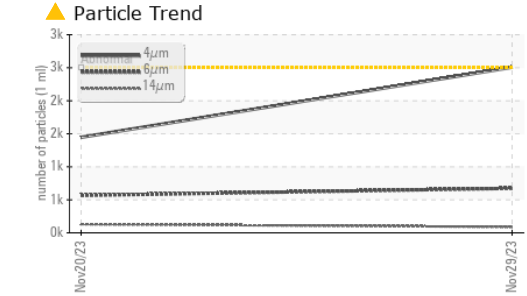
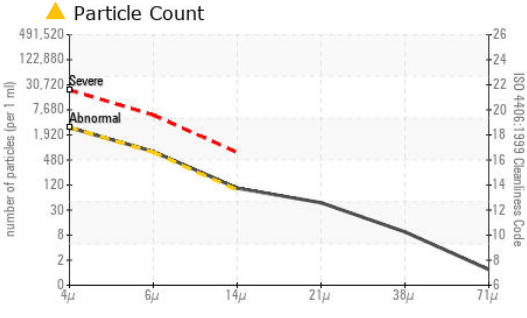
method	limit/base	current	history1	history2	
Silicon	ppm ASTM D5185(m)	<1.0	0	0	---
Sodium	ppm ASTM D5185(m)	<0.1	1	<1	---
Potassium	ppm ASTM D5185(m)	<0.1	<1	<1	---
Water	% ASTM D6304*	<0.05	0.004	0.002	---
ppm Water	ppm ASTM D6304*	<500	45	22	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	▲ 2507	1447	---
Particles >6µm	ASTM D7647	>640	▲ 674	566	---
Particles >14µm	ASTM D7647	>80	▲ 89	▲ 130	---
Particles >21µm	ASTM D7647	>20	▲ 40	▲ 66	---
Particles >38µm	ASTM D7647	>4	▲ 8	▲ 11	---
Particles >71µm	ASTM D7647	>3	1	0	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 19/17/14	▲ 18/16/14	---



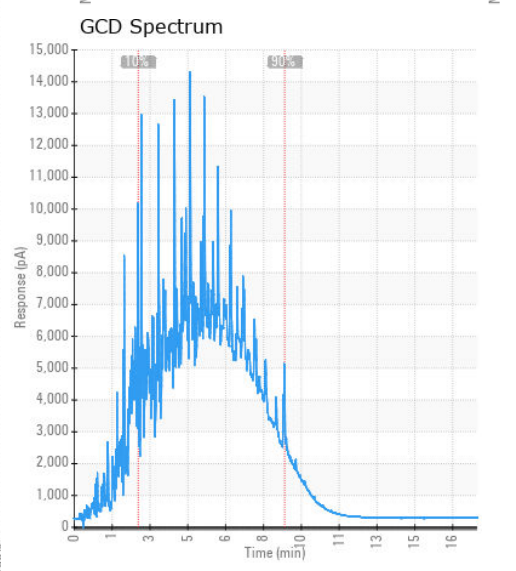
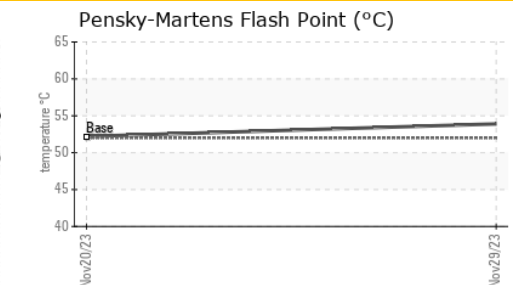
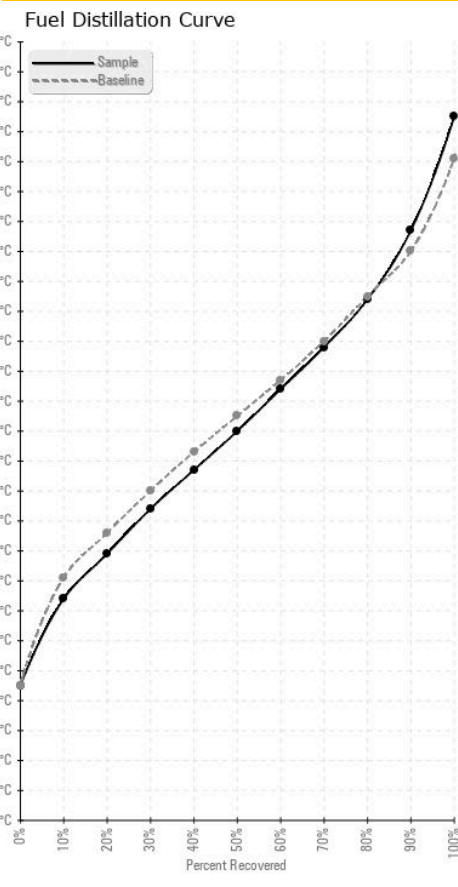
FUEL REPORT



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	<1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	0	0	---
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						no image
Bottom						no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County
Sample No. : GFL0099580 **Received** : 05 Dec 2023 220 Carmek Blvd
Lab Number : 02601075 **Diagnosed** : 07 Dec 2023 Rocky View County, AB
Unique Number : 5694160 **Diagnostician** : Kevin Marson CA T1X 1X1
Test Package : FUEL (Additional Tests: Bacteria, CC Flash, CENTRIFUGE(WARD), GC-PercFuel, PrtCount) Contact: GFL Calgary
 calgarymaintenance@gflenv.com
 T: (403)369-6163

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.