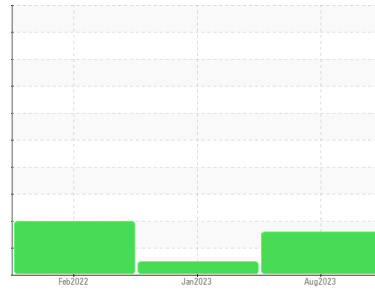




# OIL ANALYSIS REPORT

## Sample Rating Trend



**DIRT**



Machine Id  
**151000**

Component  
**Gasoline Engine**

Fluid  
**PETRO CANADA SUPREME HIGH MILEAGE 5W20 (8 LTR)**

## DIAGNOSIS

### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. There is a moderate concentration of dirt present in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0044436</b>	GFL0060931	GFL0044428
Sample Date	Client Info	<b>15 Aug 2023</b>	12 Jan 2023	23 Feb 2022
Machine Age	kms Client Info	<b>81928</b>	60236	2021
Oil Age	kms Client Info	<b>0</b>	0	400
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed
Sample Status		<b>ABNORMAL</b>	NORMAL	SEVERE

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >150	<b>24</b>	18	1
Chromium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Nickel	ppm ASTM D5185(m) >5	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	0
Silver	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >40	<b>6</b>	5	1
Lead	ppm ASTM D5185(m) >50	<b>0</b>	0	0
Copper	ppm ASTM D5185(m) >155	<b>1</b>	<1	<1
Tin	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Vanadium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 264	<b>11</b>	10	154
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 79	<b>251</b>	97	52
Manganese	ppm ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Magnesium	ppm ASTM D5185(m) 567	<b>470</b>	575	412
Calcium	ppm ASTM D5185(m) 991	<b>1240</b>	1238	995
Phosphorus	ppm ASTM D5185(m) 763	<b>644</b>	710	564
Zinc	ppm ASTM D5185(m) 840	<b>742</b>	769	610
Sulfur	ppm ASTM D5185(m) 2578	<b>2004</b>	2077	1930
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	0

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >30	<b>▲ 32</b>	10	7
Sodium	ppm ASTM D5185(m) >400	<b>54</b>	22	2
Potassium	ppm ASTM D5185(m) >20	<b>1</b>	2	<1
Fuel	% ASTM D7593* >4.0	<b>1.4</b>	1.8	● 8
Glycol	% ASTM D7922*	<b>0.0</b>	0.0	NEG

## INFRA-RED

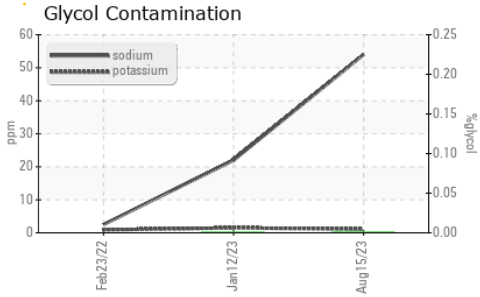
method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm ASTM D7624* >20	<b>12.3</b>	11.1	4.2
Sulfation	Abs/.1mm ASTM D7415* >30	<b>31.9</b>	26.6	16.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	<b>27.1</b>	19.1	11.0



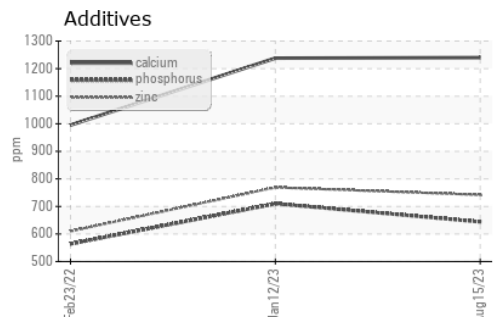
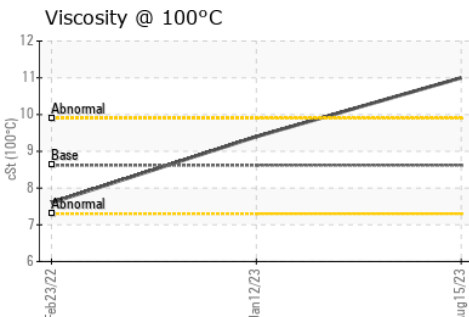
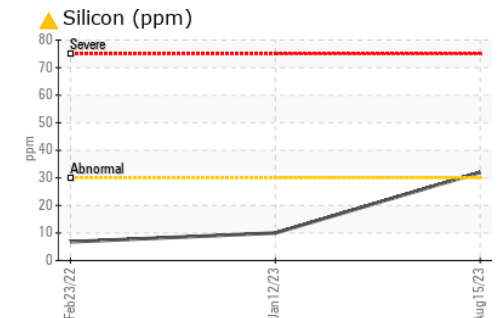
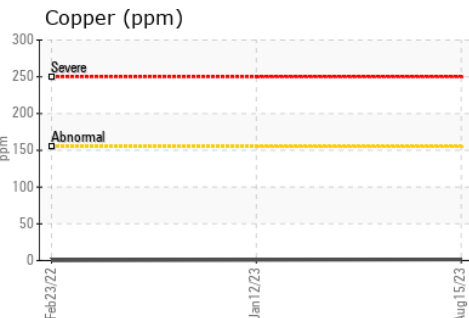
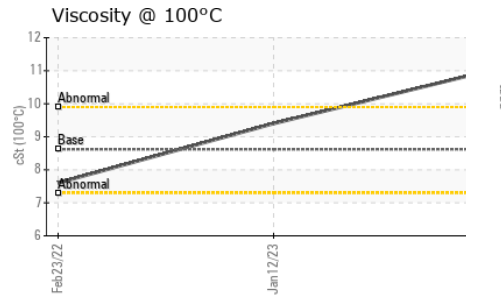
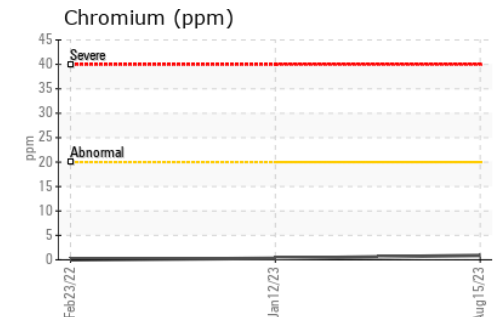
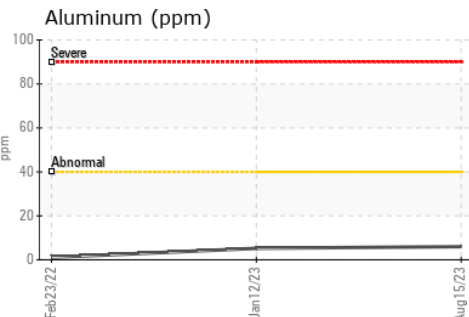
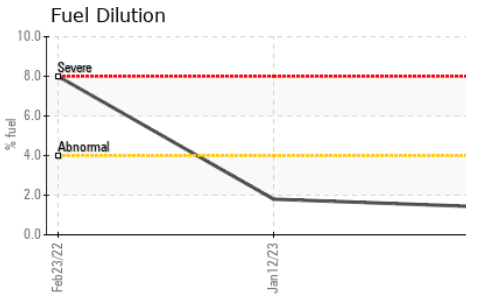
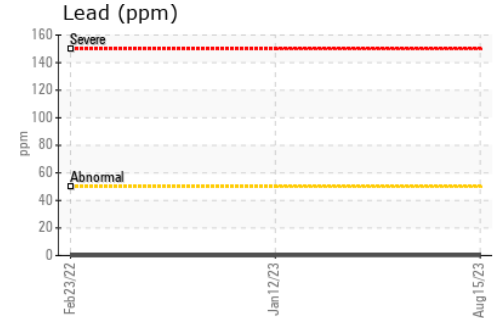
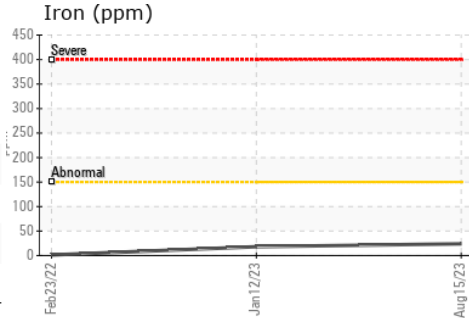
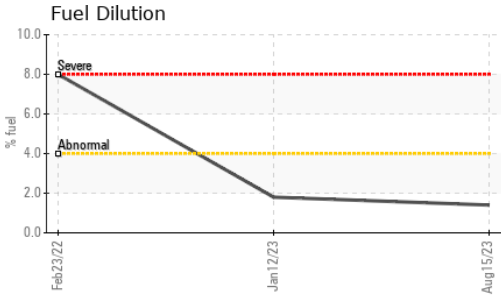
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	8.62	11.0	9.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 582 - Nanaimo**  
**Sample No.** : GFL0044436 **Received** : 05 Sep 2023  
**Lab Number** : 02580299 **Diagnosed** : 07 Sep 2023  
**Unique Number** : 5633359 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, Glycol, PercentFuel )

3469 Aqua Terra Rd.,  
 Cassidy, BC  
 CA V0R 1H0  
 Contact: GFL Tech  
 wcgfldemo@gmail.com

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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F: