



WEAR	<b>SEVERE</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**813097**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA 10W30 (--- GAL)**

**RECOMMENDATION**

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0099859</b>	GFL0081340	GFL0081344
Sample Date		Client Info		<b>20 Feb 2024</b>	25 Sep 2023	17 Jul 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Sample Status				<b>SEVERE</b>	NORMAL	SEVERE

**WEAR**

Usure de la soupape d'échappement.

Iron	ppm	ASTM D5185(m)	>120	<b>20</b>	20	35
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>5	<b>▲ 16</b>	3	▲ 6
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	4
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	5
Copper	ppm	ASTM D5185(m)	>330	<b>14</b>	93	204
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	3
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

Il n'y a aucun indice de contamination dans l'huile.

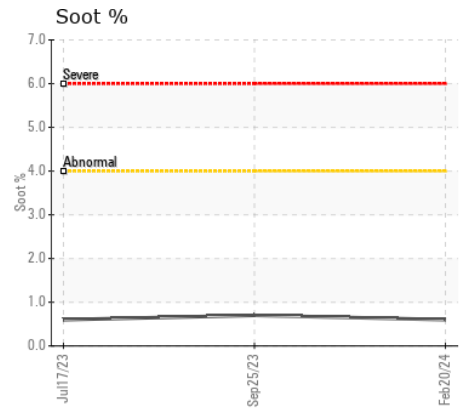
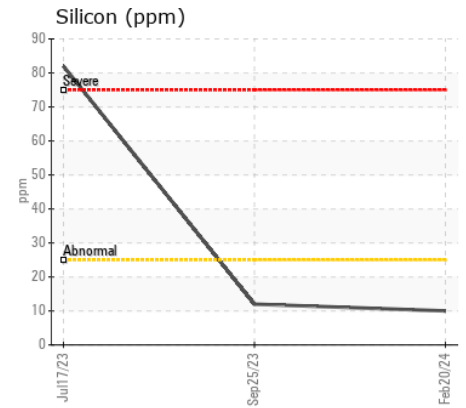
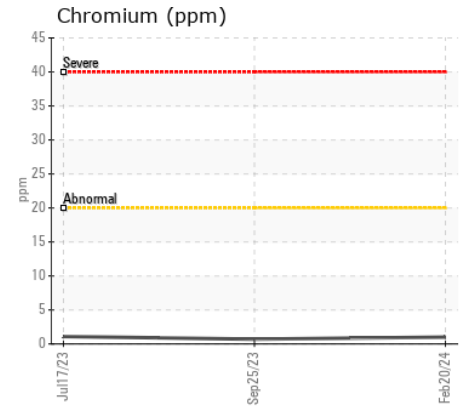
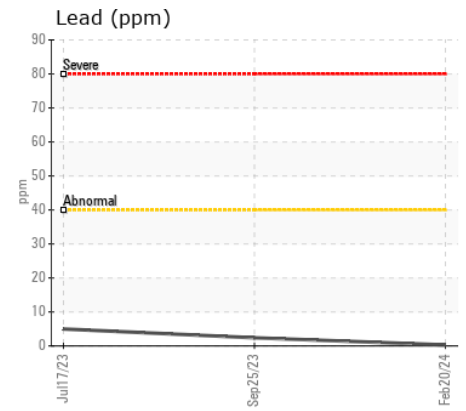
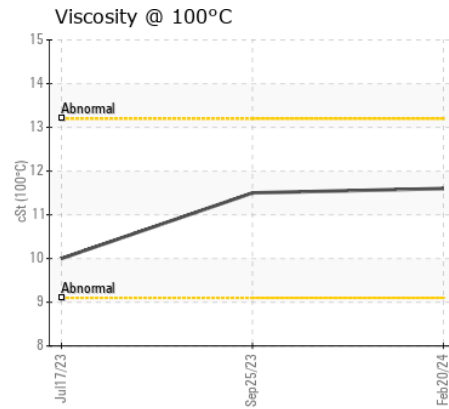
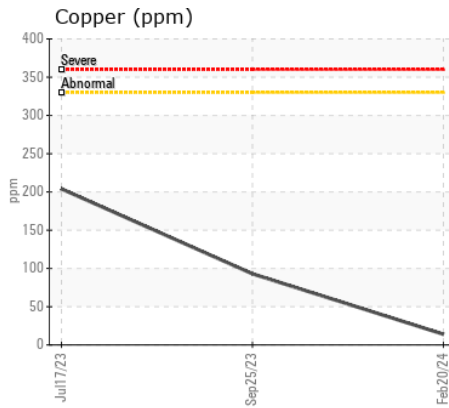
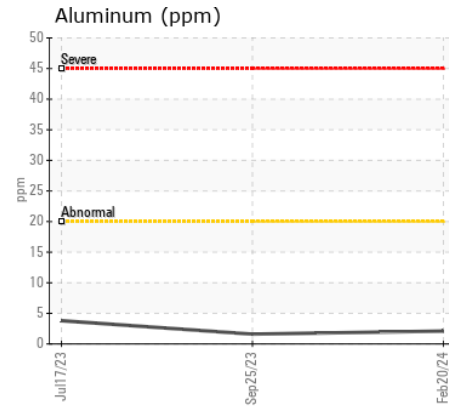
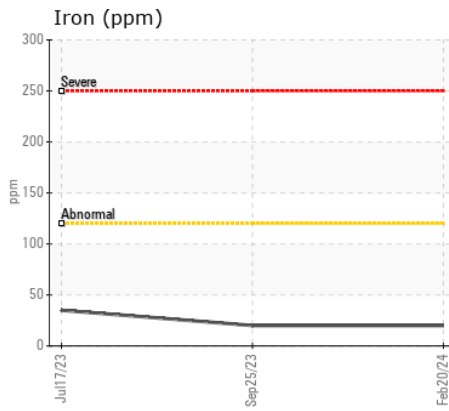
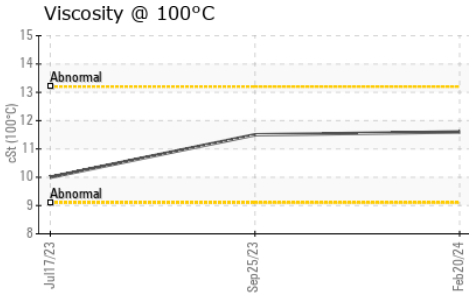
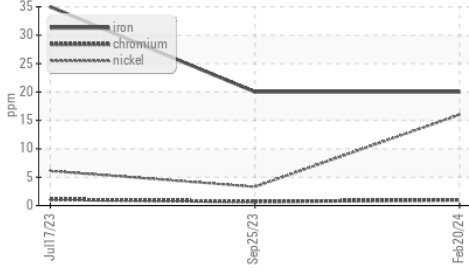
Silicon	ppm	ASTM D5185(m)	>25	<b>10</b>	12	▲ 82
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	7	7
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	<b>0.6</b>	0.7	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.0</b>	9.7	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.8</b>	21.4	24.9
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	4	4
Boron	ppm	ASTM D5185(m)		<b>25</b>	28	138
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>1</b>	9	106
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	5
Magnesium	ppm	ASTM D5185(m)		<b>737</b>	744	680
Calcium	ppm	ASTM D5185(m)		<b>1335</b>	1359	1441
Phosphorus	ppm	ASTM D5185(m)		<b>680</b>	695	686
Zinc	ppm	ASTM D5185(m)		<b>754</b>	791	774
Sulfur	ppm	ASTM D5185(m)		<b>2512</b>	2234	1809
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.9</b>	15.4	22.4
Visc @ 100°C	cSt	ASTM D7279(m)		<b>11.6</b>	11.5	10.0

▲ Ferrous Alloys



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0099859  
**Lab Number** : 02618586  
**Unique Number** : 5735696  
**Test Package** : MOB 1  
**Received** : 28 Feb 2024  
**Tested** : 28 Feb 2024  
**Diagnosed** : 28 Feb 2024 - Kevin Marson

**GFL Environmental - 736 - Trois-Rivieres**  
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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.