



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

Machine Id  
**401219**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA 10W30 (--- GAL)**

**RECOMMENDATION**

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117074</b>	GFL0089697	GFL0078333
Sample Date		Client Info		<b>18 Apr 2024</b>	17 Oct 2023	30 Mar 2023
Machine Age	hrs	Client Info		<b>24852</b>	24270	23652
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>600</b>	600	600
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Les taux d'usure de tous les composants sont normaux.

Iron	ppm	ASTM D5185(m)	>110	<b>52</b>	82	37
Chromium	ppm	ASTM D5185(m)	>4	<b>2</b>	4	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>12</b>	11	8
Lead	ppm	ASTM D5185(m)	>45	<b>9</b>	22	6
Copper	ppm	ASTM D5185(m)	>85	<b>4</b>	16	2
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	2	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

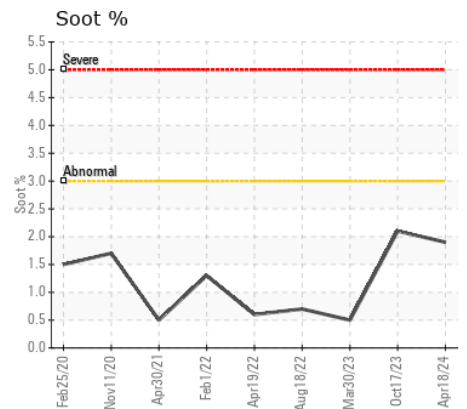
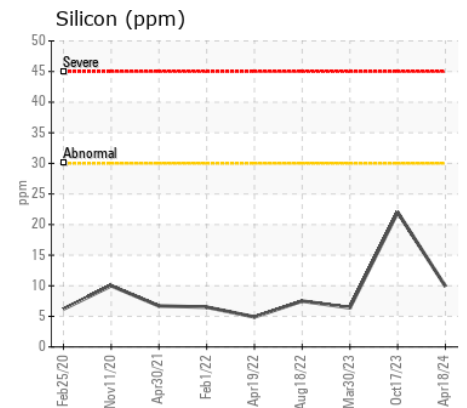
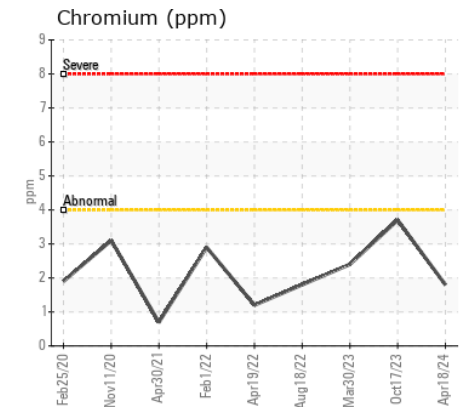
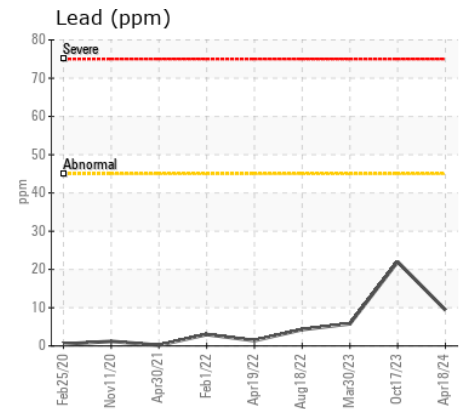
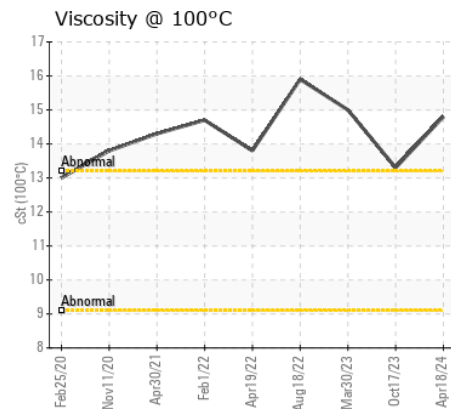
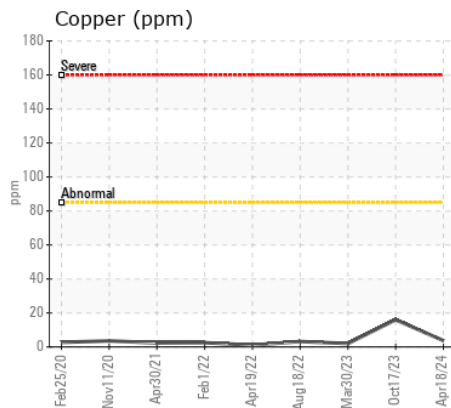
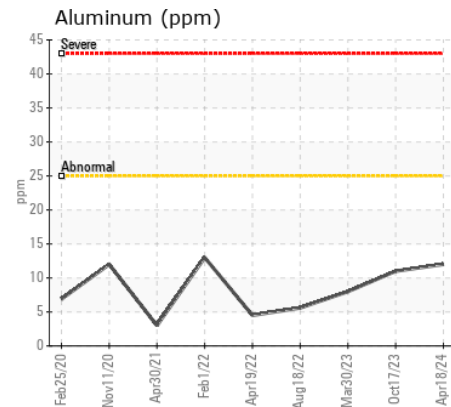
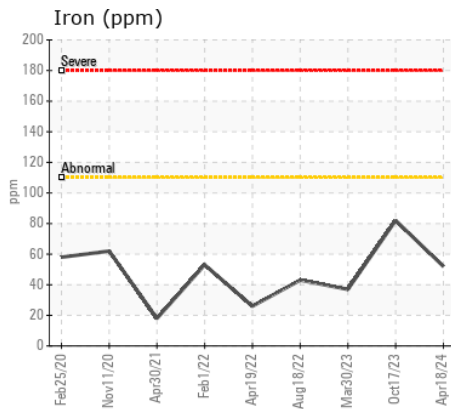
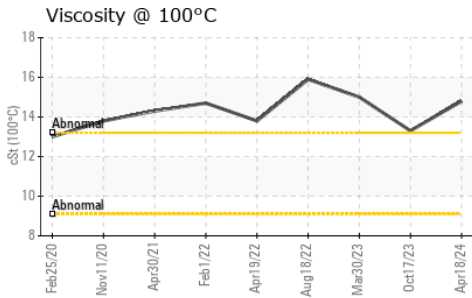
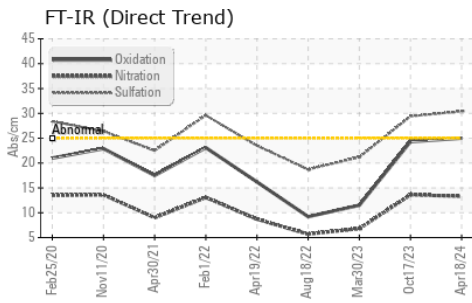
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>30	<b>10</b>	22	6
Potassium	ppm	ASTM D5185(m)	>20	<b>26</b>	17	9
Fuel		WC Method	>5	<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*	>3	<b>1.9</b>	2.1	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.3</b>	13.6	6.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>30.4</b>	29.4	21.2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>5</b>	6	5
Boron	ppm	ASTM D5185(m)		<b>49</b>	28	54
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>7</b>	21	16
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>109</b>	289	227
Calcium	ppm	ASTM D5185(m)		<b>2127</b>	1796	2055
Phosphorus	ppm	ASTM D5185(m)		<b>924</b>	918	1048
Zinc	ppm	ASTM D5185(m)		<b>1151</b>	1122	1162
Sulfur	ppm	ASTM D5185(m)		<b>2620</b>	2440	2838
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>25.0</b>	24.3	11.5
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.8</b>	13.3	15.0



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117074  
**Lab Number** : 02630497  
**Unique Number** : 5763629  
**Test Package** : MOB 1

**Received** : 22 Apr 2024  
**Tested** : 22 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Kevin Marson

**GFL Environmental - 732 - Beauce - Hauling - Solid Waste**  
 139, 181 Street,  
 Beauceville, QC  
 CA G5X 2S9  
 Contact: Sandrine Duval  
 sduval@matrec.ca  
 T: (418)774-5275  
 F: (418)774-5292

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.