



Machine Id
913160
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		GFL0110450	---	---
Sample Date		Client Info		19 Jan 2024	---	---
Machine Age	hrs	Client Info		600	---	---
Oil Age	hrs	Client Info		600	---	---
Filter Age	hrs	Client Info		600	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

Usure de la soupape d'échappement. Le niveau d'usure du composant est élevé pour la période de rodage.

Iron	ppm	ASTM D5185(m)	>120	59	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>5	▲ 28	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>20	9	---	---
Lead	ppm	ASTM D5185(m)	>40	2	---	---
Copper	ppm	ASTM D5185(m)	>330	97	---	---
Tin	ppm	ASTM D5185(m)	>15	4	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

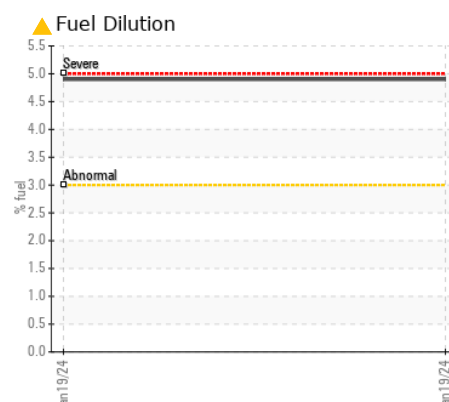
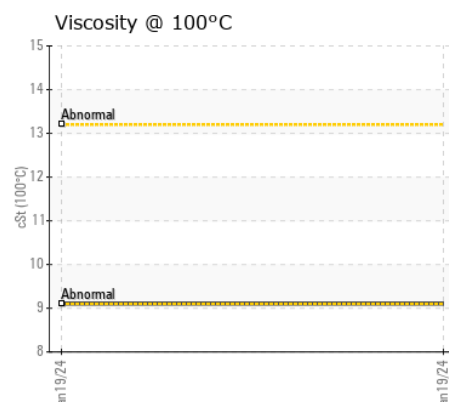
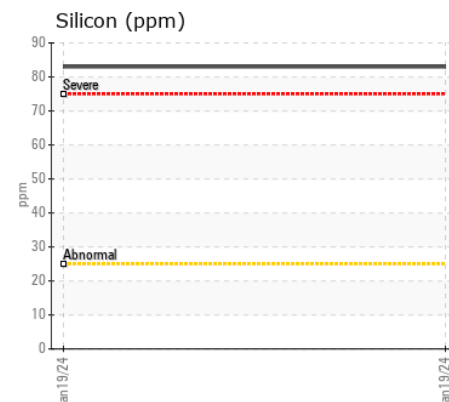
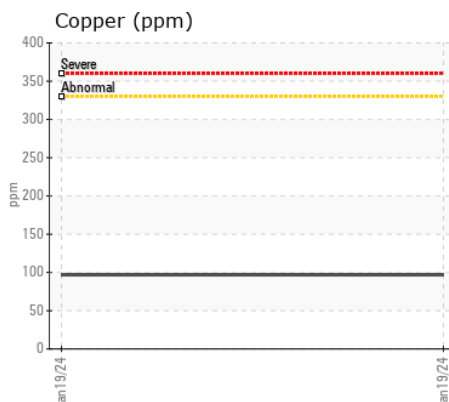
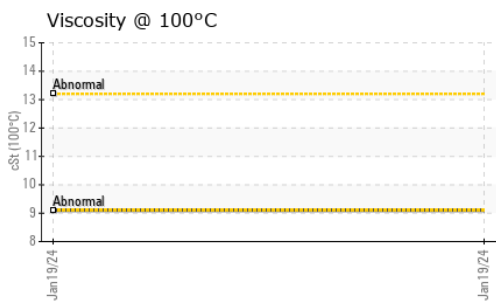
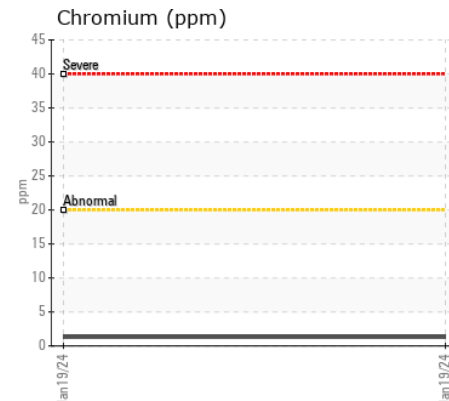
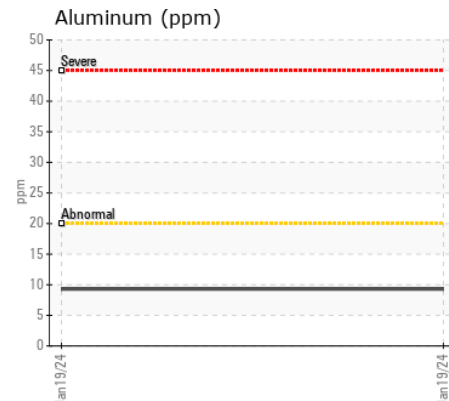
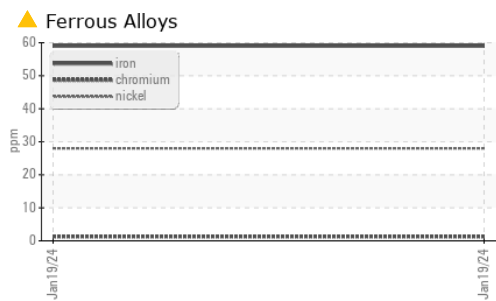
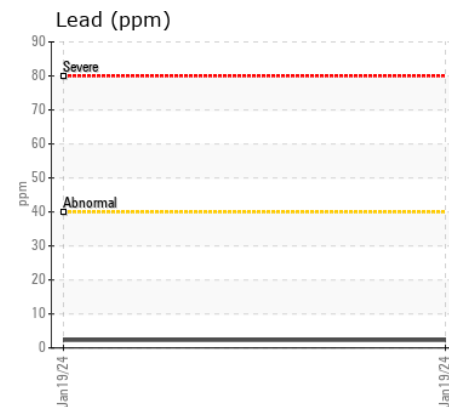
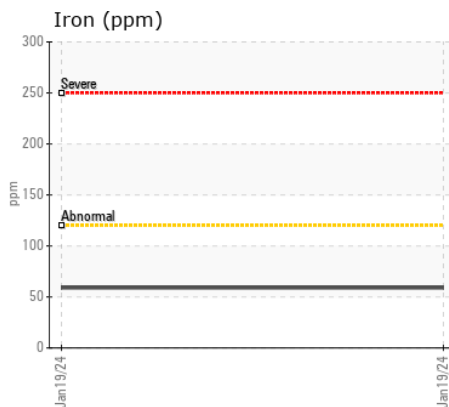
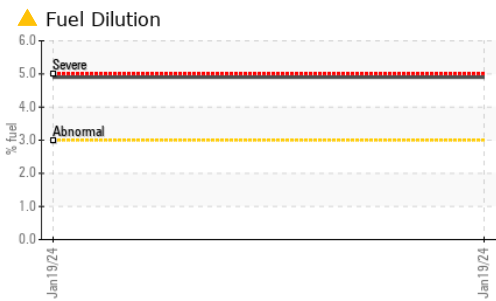
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Quantité modérée de carburant dans l'huile. Les tests confirment la présence de carburant dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	83	---	---
Potassium	ppm	ASTM D5185(m)	>20	17	---	---
Fuel	%	ASTM D7593*	>3.0	▲ 4.9	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>4	0.3	---	---
Nitration	Abs/cm	ASTM D7624*	>20	10.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.5	---	---
Emulsified Water	scalar	Visual*	>0.2	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)		4	---	---
Boron	ppm	ASTM D5185(m)		202	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		105	---	---
Manganese	ppm	ASTM D5185(m)		5	---	---
Magnesium	ppm	ASTM D5185(m)		600	---	---
Calcium	ppm	ASTM D5185(m)		1402	---	---
Phosphorus	ppm	ASTM D5185(m)		617	---	---
Zinc	ppm	ASTM D5185(m)		722	---	---
Sulfur	ppm	ASTM D5185(m)		1872	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		9.1	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 732 - Beauce - Hauling - Solid Waste
Sample No. : GFL0110450 **Received** : 22 Jan 2024
Lab Number : 02610207 **Diagnosed** : 24 Jan 2024
Unique Number : 5711293 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

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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