

Machine Id
827083
Component
Diesel Engine
Fluid
PETRO CANADA 10W40 (--- LTR)

RECOMMENDATION

Nous vous recommandons de vérifier le filtre à air, le système d'induction d'air et tout endroit où la saleté peut entrer dans le composant. Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

WEAR

Usure de cylindre, de vilebrequin ou d'arbre à cames. Usure de piston.

CONTAMINATION

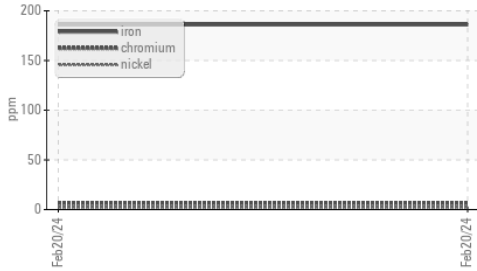
Légère dilution de carburant dans l'huile. Concentration modérée de saleté dans l'huile. Légère concentration de carbone/suie dans l'huile. Une grande quantité de saleté a provoqué une usure abrasive du composant. Aucun autre contaminant n'a été détecté dans l'huile.

FLUID CONDITION

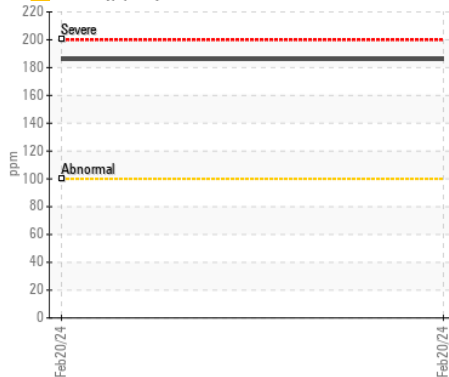
l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0079056	---	---
Sample Date		Client Info		20 Feb 2024	---	---
Machine Age	kms	Client Info		344609	---	---
Oil Age	kms	Client Info		0	---	---
Filter Age	kms	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---
PQ		ASTM D8184*		7	---	---
Iron	ppm	ASTM D5185(m)	>100	▲ 186	---	---
Chromium	ppm	ASTM D5185(m)	>20	6	---	---
Nickel	ppm	ASTM D5185(m)	>4	2	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>20	▲ 24	---	---
Lead	ppm	ASTM D5185(m)	>40	2	---	---
Copper	ppm	ASTM D5185(m)	>330	5	---	---
Tin	ppm	ASTM D5185(m)	>15	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>25	▲ 27	---	---
Potassium	ppm	ASTM D5185(m)	>20	3	---	---
Fuel	%	ASTM D7593*	>2.0	1.1	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	▲ 3.4	---	---
Nitration	Abs/cm	ASTM D7624*	>20	14.6	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.7	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)	>20	6	---	---
Boron	ppm	ASTM D5185(m)		7	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		67	---	---
Manganese	ppm	ASTM D5185(m)		1	---	---
Magnesium	ppm	ASTM D5185(m)		971	---	---
Calcium	ppm	ASTM D5185(m)		1141	---	---
Phosphorus	ppm	ASTM D5185(m)		1020	---	---
Zinc	ppm	ASTM D5185(m)		1191	---	---
Sulfur	ppm	ASTM D5185(m)		2571	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		12.6	---	---

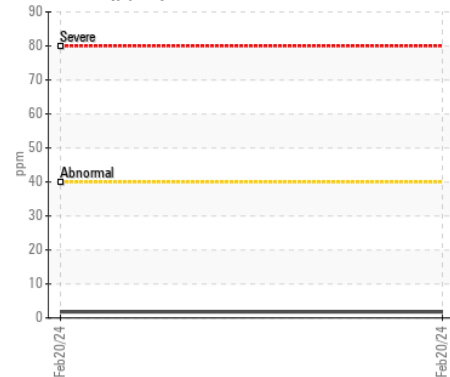
▲ Ferrous Alloys



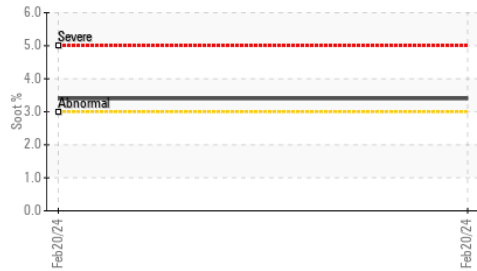
▲ Iron (ppm)



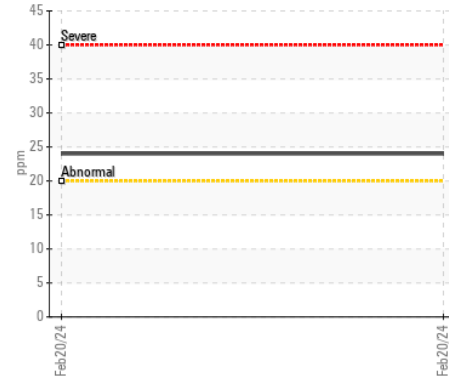
▲ Lead (ppm)



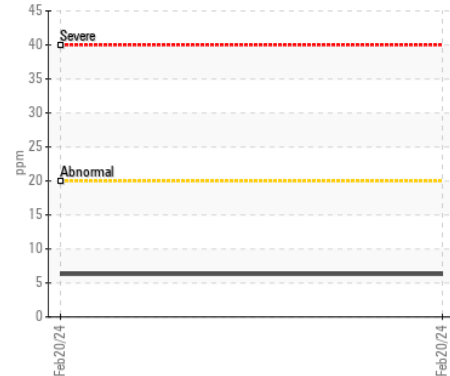
▲ Soot %



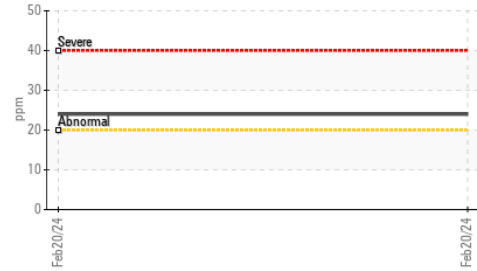
▲ Aluminum (ppm)



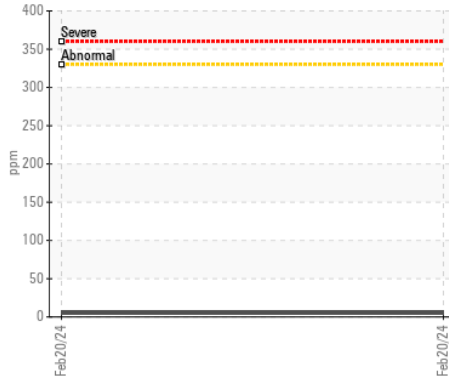
▲ Chromium (ppm)



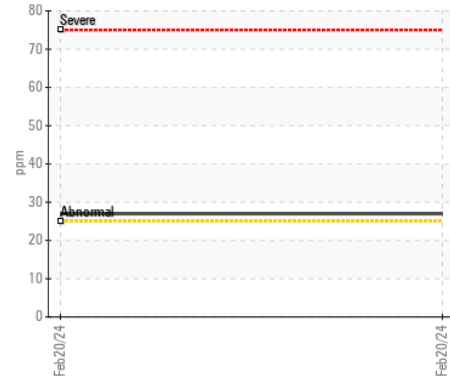
▲ Aluminum (ppm)



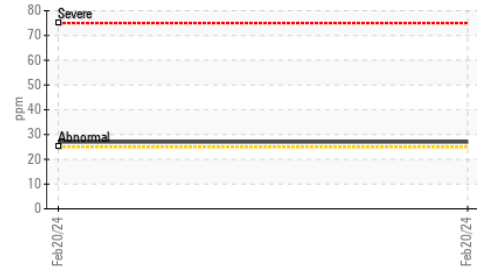
▲ Copper (ppm)



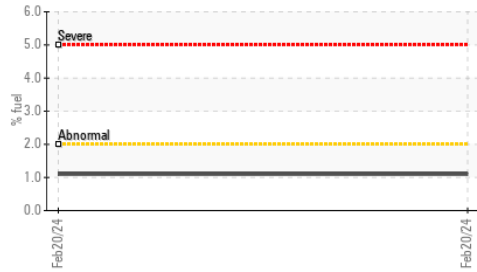
▲ Silicon (ppm)



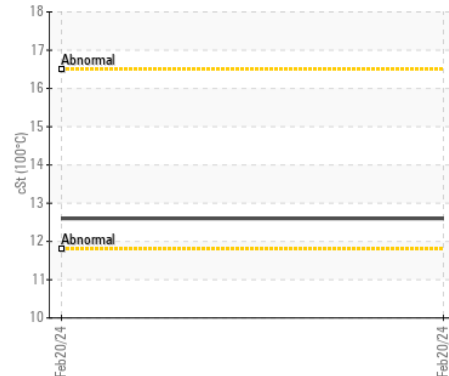
▲ Silicon (ppm)



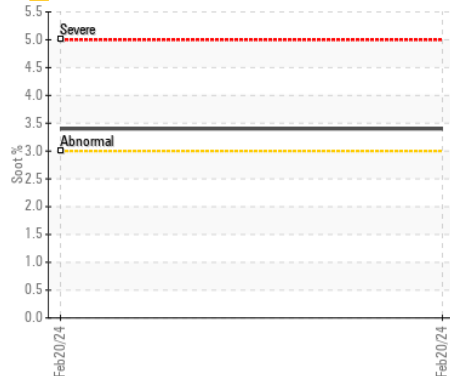
▲ Fuel Dilution



▲ Viscosity @ 100°C



▲ Soot %



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0079056 **Received** : 22 Feb 2024
Lab Number : 02617381 **Tested** : 26 Feb 2024
Unique Number : 5734491 **Diagnosed** : 26 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, PQ)

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 F: (418)388-2038

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.