



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
701020
Component
Diesel Engine
Fluid
PETRO CANADA 10W30 (19 LTR)

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		GFL0103772	GFL0071088	GFL0028072
Sample Date		Client Info		06 Feb 2024	07 Jul 2023	21 Dec 2022
Machine Age	hrs	Client Info		14851	2016	2016
Oil Age	hrs	Client Info		0	759	551
Filter Age	hrs	Client Info		0	759	551
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185(m)	>75	▲ 83	38	31
Chromium	ppm	ASTM D5185(m)	>5	2	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	4	3	2
Lead	ppm	ASTM D5185(m)	>25	3	1	2
Copper	ppm	ASTM D5185(m)	>100	7	2	1
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

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

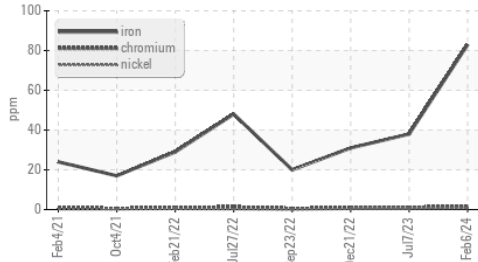
Silicon	ppm	ASTM D5185(m)	>25	9	7	5
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.8	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	10.6	10.4	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5	22.9	24.2
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

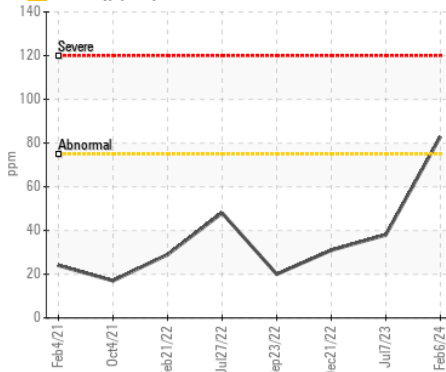
L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		3	3	3
Boron	ppm	ASTM D5185(m)		1	4	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		56	58	56
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		895	952	899
Calcium	ppm	ASTM D5185(m)		1038	1238	1038
Phosphorus	ppm	ASTM D5185(m)		930	1076	990
Zinc	ppm	ASTM D5185(m)		1116	1246	1121
Sulfur	ppm	ASTM D5185(m)		2069	2350	2242
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.4	19.5	22.5
Visc @ 100°C	cSt	ASTM D7279(m)		12.3	13.2	11.0

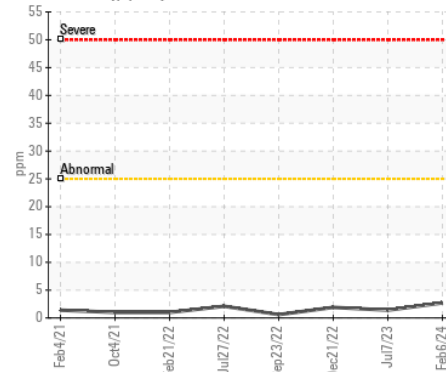
▲ Ferrous Alloys



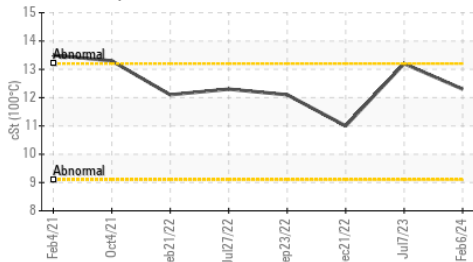
▲ Iron (ppm)



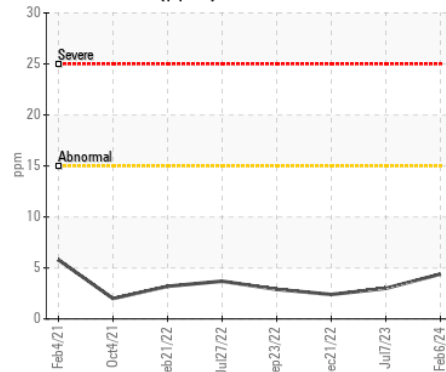
▲ Lead (ppm)



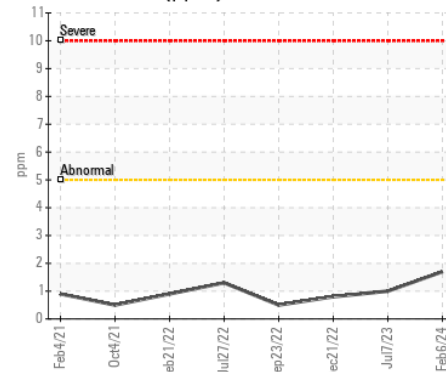
Viscosity @ 100°C



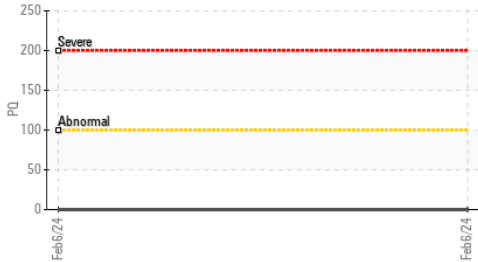
▲ Aluminum (ppm)



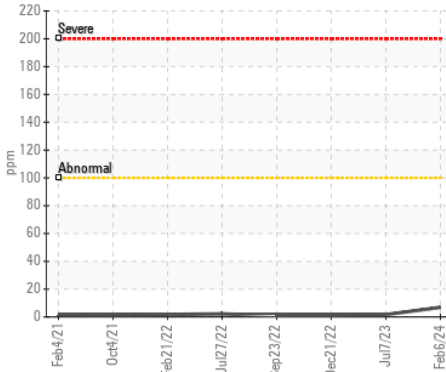
▲ Chromium (ppm)



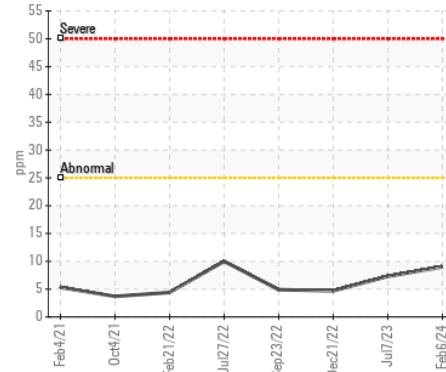
PQ



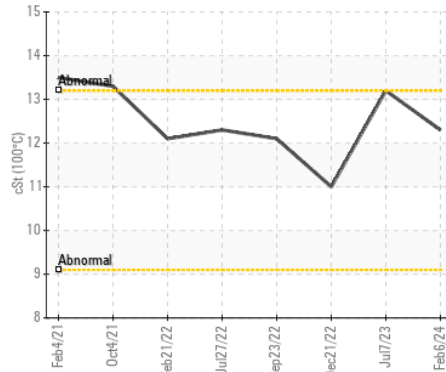
▲ Copper (ppm)



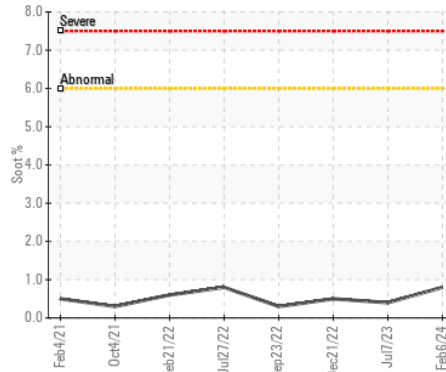
▲ Silicon (ppm)



Viscosity @ 100°C



▲ Soot %



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0103772
Lab Number : 02615867
Unique Number : 5732977
Test Package : MOB 1 (Additional Tests: PQ, Visual)

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 T: (450)687-3838
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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.