



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
701087
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (32)

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		GFL0107645	GFL0096448	GFL0096363
Sample Date		Client Info		19 Mar 2024	25 Jan 2024	03 Oct 2023
Machine Age	kms	Client Info		210939	207945	198557
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>65	7	14	10
Chromium	ppm	ASTM D5185(m)	>5	<1	2	1
Nickel	ppm	ASTM D5185(m)	>3	0	<1	0
Titanium	ppm	ASTM D5185(m)	>5	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>35	5	9	5
Lead	ppm	ASTM D5185(m)	>10	0	<1	<1
Copper	ppm	ASTM D5185(m)	>180	2	3	3
Tin	ppm	ASTM D5185(m)	>8	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---	---

CONTAMINATION

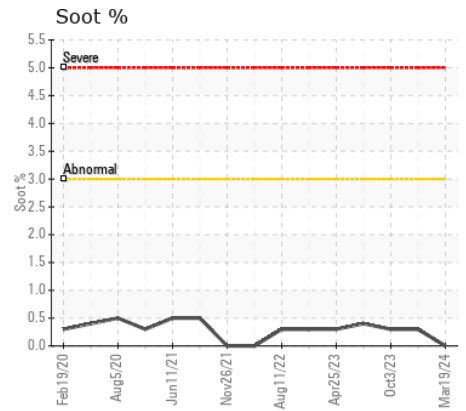
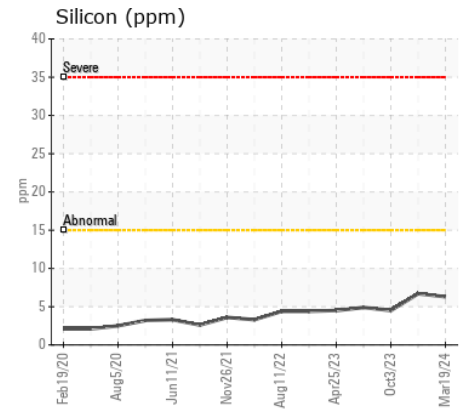
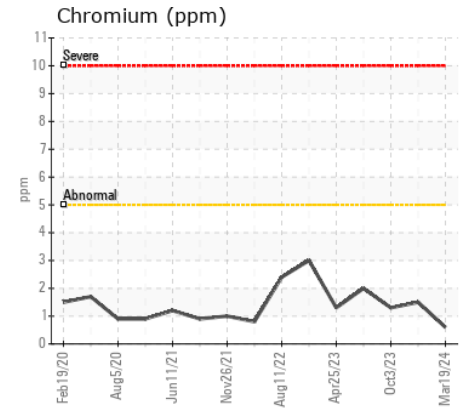
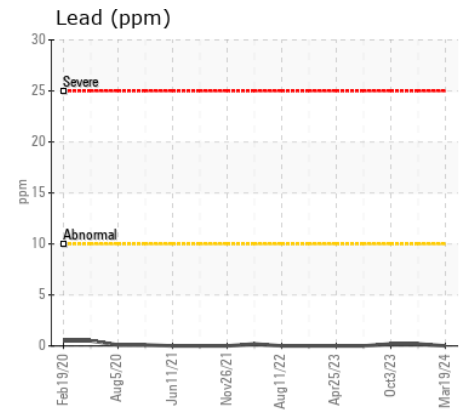
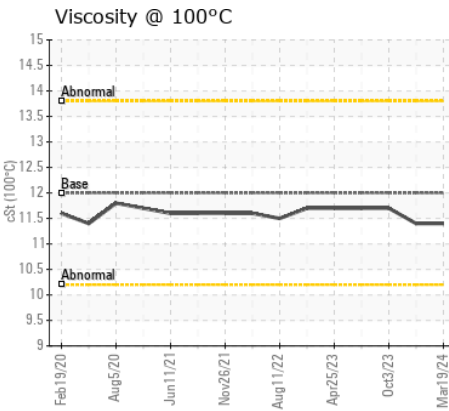
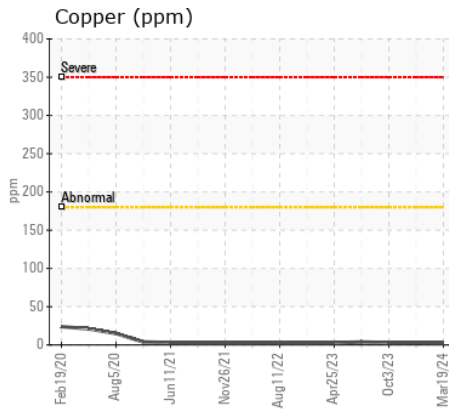
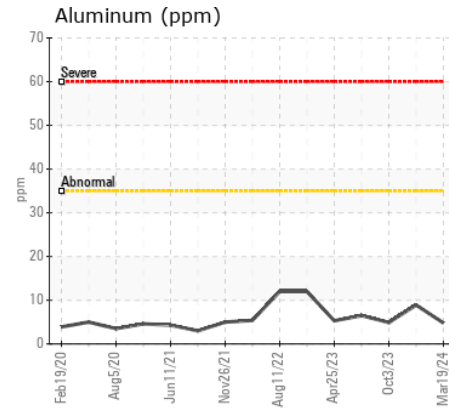
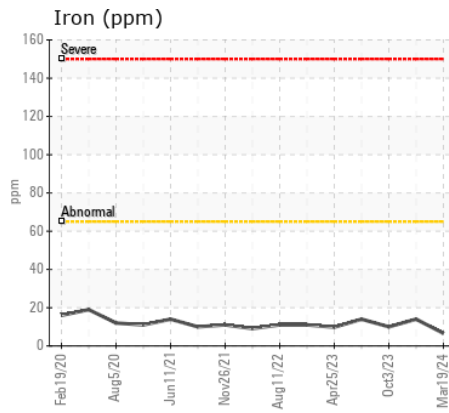
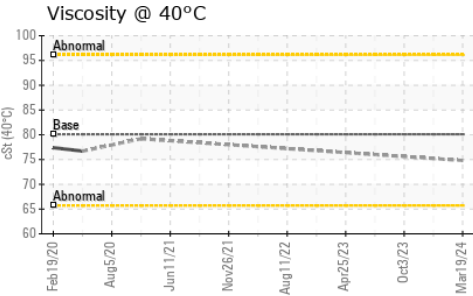
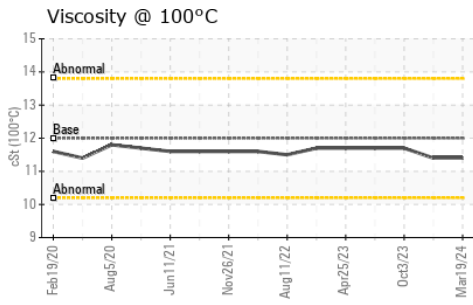
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>15	6	7	4
Potassium	ppm	ASTM D5185(m)	>20	6	11	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*	>3	0	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	5.6	7.3	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	19.3	18.8
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'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	2	<1	<1	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	58	60	62
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	957	984	991
Calcium	ppm	ASTM D5185(m)	1050	1030	1076	1086
Phosphorus	ppm	ASTM D5185(m)	995	1007	989	1039
Zinc	ppm	ASTM D5185(m)	1180	1184	1210	1217
Sulfur	ppm	ASTM D5185(m)	2600	2531	2587	2508
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	15.0	13.9
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	74.8	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.4	11.4	11.7
Viscosity Index (VI)	Scale	ASTM D2270*	144	144	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 747 - GMA - Solid Waste**
Sample No. : GFL0107645 **Received** : 28 Mar 2024 **4 Chemin du Tremblay,**
Lab Number : 02625174 **Tested** : 01 Apr 2024 **Boucherville, QC**
Unique Number : 5750293 **Diagnosed** : 01 Apr 2024 - Kevin Marson **CA J4B 6Z5**
Test Package : MOB 1 (Additional Tests: BottomAnalysis, FILTERPATCH, KV40, VI, Visual) **Contact: Steve Voyer**
To discuss this sample report, contact Customer Service at 1-800-268-2131. **svoyer@matrec.ca**
Test denoted () outside scope of accreditation, (m) method modified, (e) tested at external lab.* **T:**
Validity of results and interpretation are based on the sample and information as supplied. **F:**