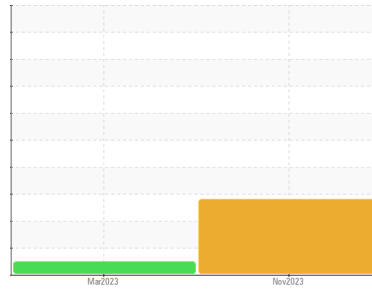




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
4660

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Vérifier le niveau du fluide de refroidissement. Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Le fluide était spécifié comme PETRO CANADA DURON SHP 10W30, toutefois, une comparaison avec d'autres fluides indique que ce fluide est du SAE 40 Diesel Engine Oil. Veuillez confirmer la viscosité de l'huile et veuillez préciser la marque de votre prochain échantillon.

Wear

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

Contamination

Des produits de traitement de l'eau sont présents, ce qui indique une fuite lente de fluide de refroidissement. Le test de glycol est négatif.

Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. L'état de l'huile est acceptable pour la durée de service (voir recommandation).

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0061583	GFL0073466	---
Sample Date	Client Info	01 Nov 2023	27 Mar 2023	---
Machine Age	kms Client Info	450751	13901	---
Oil Age	kms Client Info	0	600	---
Oil Changed	Client Info	N/A	Changed	---
Sample Status		ABNORMAL	NORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	63	33	---
Chromium	ppm ASTM D5185(m) >20	2	6	---
Nickel	ppm ASTM D5185(m) >4	<1	<1	---
Titanium	ppm ASTM D5185(m)	0	<1	---
Silver	ppm ASTM D5185(m) >3	<1	<1	---
Aluminum	ppm ASTM D5185(m) >20	6	9	---
Lead	ppm ASTM D5185(m) >40	2	<1	---
Copper	ppm ASTM D5185(m) >330	86	19	---
Tin	ppm ASTM D5185(m) >15	0	<1	---
Antimony	ppm ASTM D5185(m)	0	<1	---
Vanadium	ppm ASTM D5185(m)	0	0	---
Beryllium	ppm ASTM D5185(m)	0	0	---
Cadmium	ppm ASTM D5185(m)	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 2	23	2	---
Barium	ppm ASTM D5185(m) 0	<1	<1	---
Molybdenum	ppm ASTM D5185(m) 50	107	61	---
Manganese	ppm ASTM D5185(m) 0	<1	4	---
Magnesium	ppm ASTM D5185(m) 950	152	946	---
Calcium	ppm ASTM D5185(m) 1050	1896	1093	---
Phosphorus	ppm ASTM D5185(m) 995	897	1090	---
Zinc	ppm ASTM D5185(m) 1180	1111	1161	---
Sulfur	ppm ASTM D5185(m) 2600	2748	2638	---
Lithium	ppm ASTM D5185(m)	<1	<1	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	10	11	---
Sodium	ppm ASTM D5185(m)	▲ 1645	18	---
Potassium	ppm ASTM D5185(m) >20	▲ 1105	27	---
Glycol	% ASTM D7922*	0.0	0.0	---

INFRA-RED

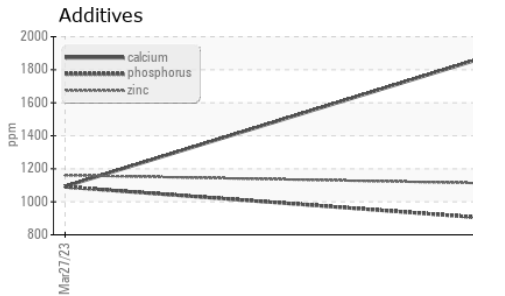
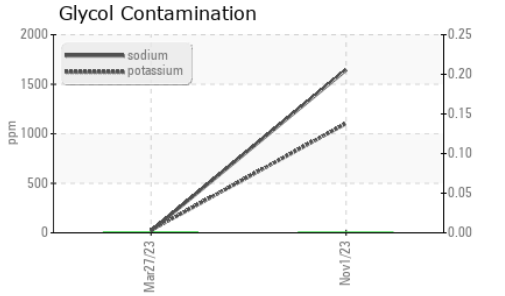
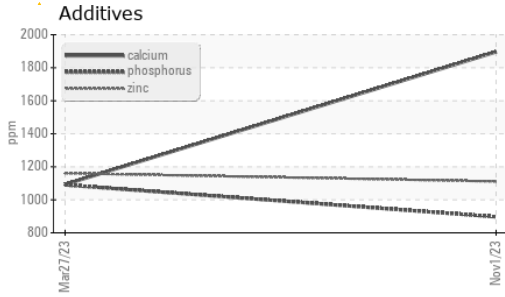
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0.7	0	---
Nitration	Abs/cm ASTM D7624* >20	14.9	7.6	---
Sulfation	Abs/.1mm ASTM D7415* >30	25.3	21.5	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	17.3	14.8	---



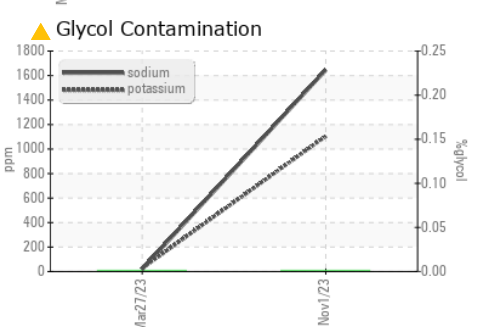
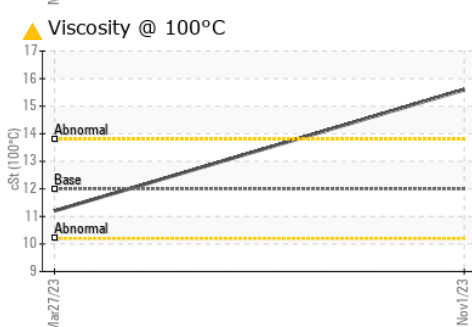
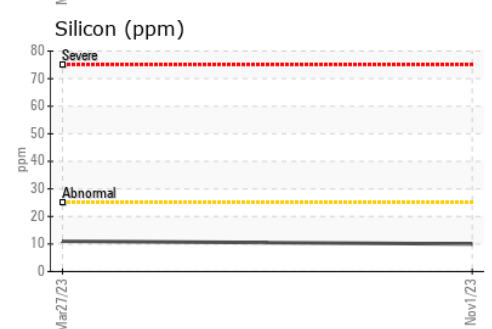
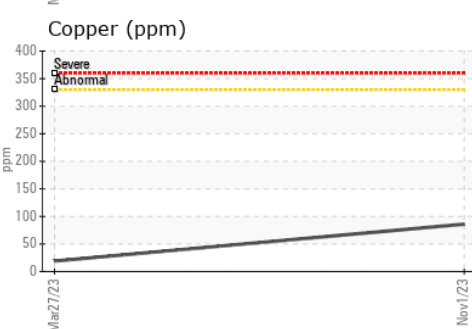
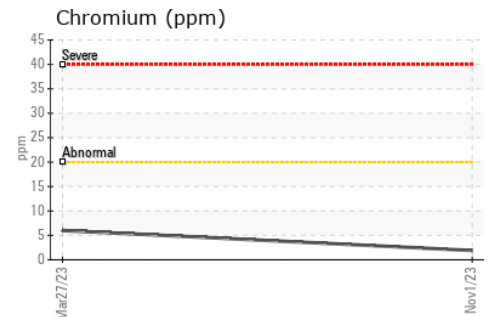
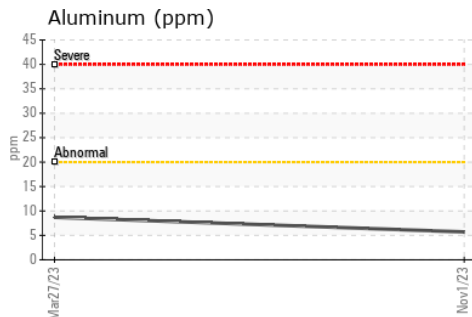
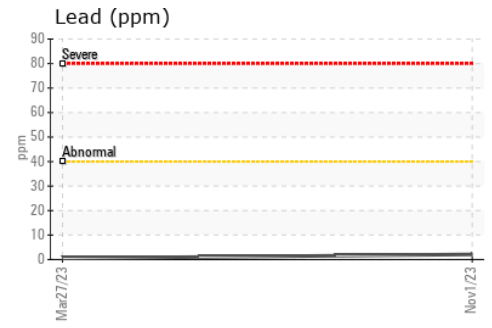
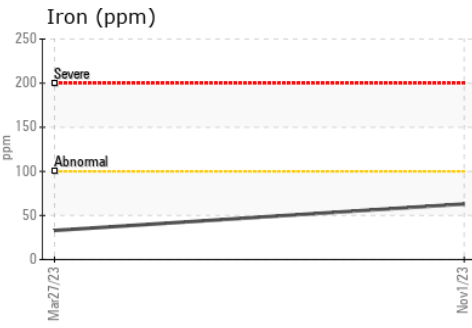
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	▲ 15.6	11.2

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 784 - Saint-Hyacinthe
Sample No. : GFL0061583 **Received** : 08 Nov 2023
Lab Number : 02594914 **Diagnosed** : 10 Nov 2023
Unique Number : 5671993 **Diagnostician** : Bill Quesnel
Test Package : MOB 1 (Additional Tests: Glycol)

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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