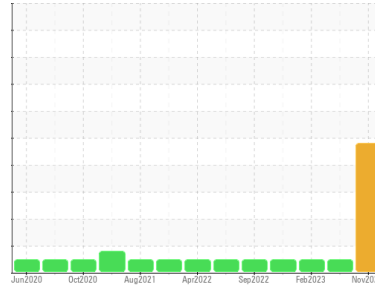




OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Machine Id
8331
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier la source de la fuite de fluide de refroidissement. Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons de rincer complètement le composant avant de le remplir l'huile. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

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

Contamination

Le test de glycol est positif. Il y a une légère concentration de glycol dans l'huile.

Fluid Condition

L'huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0096350	GFL0079441	GFL0072762
Sample Date	Client Info	01 Nov 2023	15 May 2023	08 Feb 2023
Machine Age	kms Client Info	299776	294132	311364
Oil Age	kms Client Info	600	0	0
Oil Changed	Client Info	N/A	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	<1.0	<1.0

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >75	40	32	25
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	<1	<1
Silver	ppm ASTM D5185(m) >2	<1	0	0
Aluminum	ppm ASTM D5185(m) >15	8	4	3
Lead	ppm ASTM D5185(m) >25	<1	<1	0
Copper	ppm ASTM D5185(m) >100	2	2	2
Tin	ppm ASTM D5185(m) >4	0	<1	<1
Antimony	ppm ASTM D5185(m)	0	<1	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 2	2	2	2
Barium	ppm ASTM D5185(m) 0	<1	0	0
Molybdenum	ppm ASTM D5185(m) 50	92	66	64
Manganese	ppm ASTM D5185(m) 0	0	<1	<1
Magnesium	ppm ASTM D5185(m) 950	972	996	989
Calcium	ppm ASTM D5185(m) 1050	1073	1172	1146
Phosphorus	ppm ASTM D5185(m) 995	1028	1107	1101
Zinc	ppm ASTM D5185(m) 1180	1220	1274	1235
Sulfur	ppm ASTM D5185(m) 2600	2516	2543	2533
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	15	10	10
Sodium	ppm ASTM D5185(m)	▲ 751	75	41
Potassium	ppm ASTM D5185(m) >20	▲ 30	10	8
Glycol	% ASTM D7922*	▲ 0.01	0.0	0.0

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >6	0.9	0.6	0.4
Nitration	Abs/cm ASTM D7624* >20	10.7	9.8	9.4
Sulfation	Abs/.1mm ASTM D7415* >30	22.2	21.5	23.5

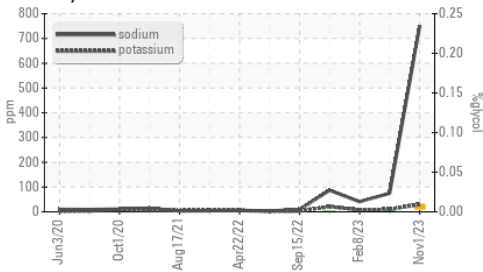
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	16.3	17.5	17.3

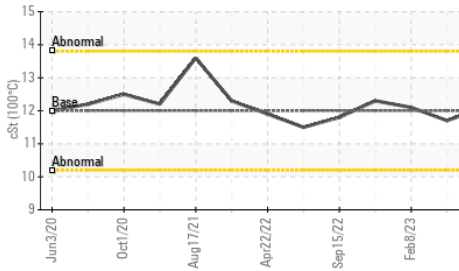


OIL ANALYSIS REPORT

▲ Glycol Contamination



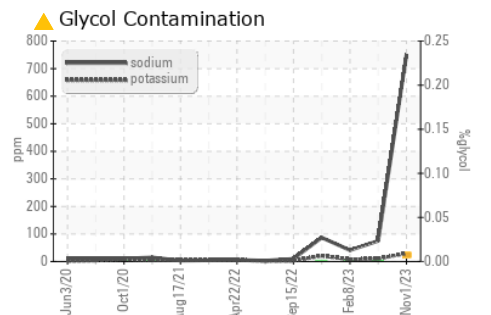
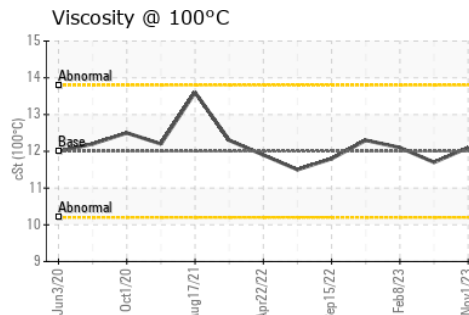
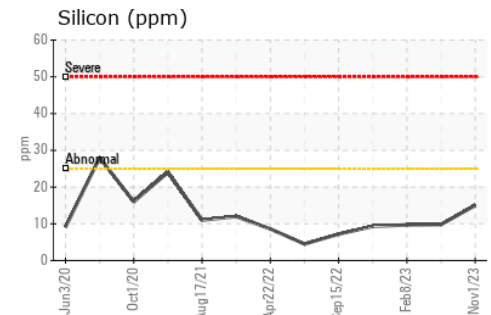
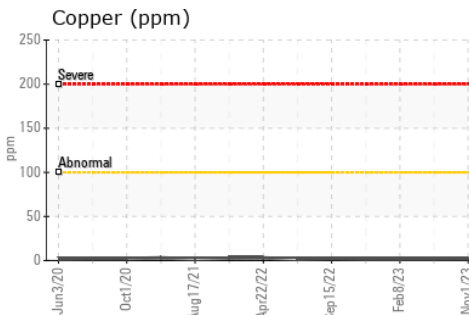
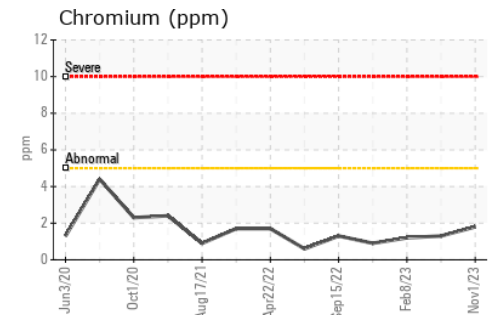
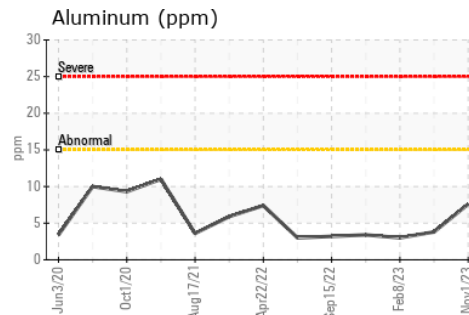
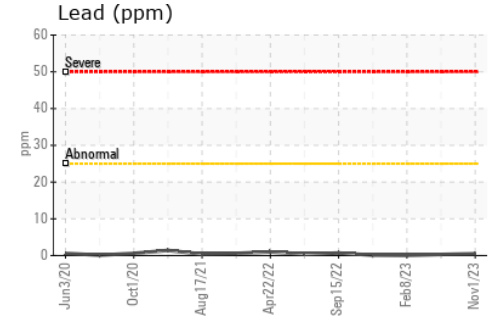
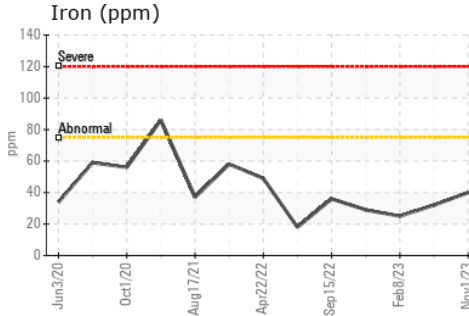
Viscosity @ 100°C



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	12.1	11.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 747 - GMA - Solid Waste
Sample No. : GFL0096350 **Received** : 08 Nov 2023
Lab Number : 02594826 **Diagnosed** : 08 Nov 2023
Unique Number : 5671905 **Diagnostician** : Wes Davis
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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 Contact: Steve Voyer
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T:
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