



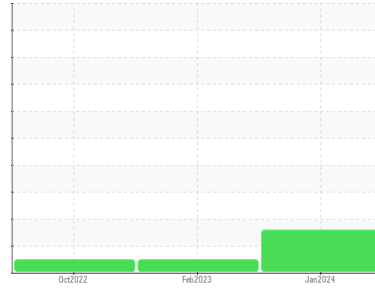
OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Machine Id
732022
 Component
Right Diesel Engine
 Fluid
CHEVRON DELO 400 LE 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

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

Contamination

Il y a une trace d'humidité dans l'huile. Le test de glycol est négatif.

Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0097040	GFL0072749	GFL0055284
Sample Date	Client Info	31 Jan 2024	02 Feb 2023	05 Oct 2022
Machine Age	hrs	9249	1963	1180
Oil Age	hrs	0	600	0
Oil Changed	Client Info	N/A	Changed	Changed
Sample Status		MARGINAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >80	8	18	62
Chromium	ppm ASTM D5185(m) >5	<1	<1	2
Nickel	ppm ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm ASTM D5185(m)	0	<1	<1
Silver	ppm ASTM D5185(m) >3	0	0	0
Aluminum	ppm ASTM D5185(m) >30	4	2	6
Lead	ppm ASTM D5185(m) >30	3	2	4
Copper	ppm ASTM D5185(m) >150	3	6	15
Tin	ppm ASTM D5185(m) >5	<1	<1	2
Antimony	ppm ASTM D5185(m)	0	0	<1
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)	5	7	10
Barium	ppm ASTM D5185(m)	0	<1	6
Molybdenum	ppm ASTM D5185(m)	101	61	113
Manganese	ppm ASTM D5185(m)	0	1	5
Magnesium	ppm ASTM D5185(m)	706	801	726
Calcium	ppm ASTM D5185(m)	1253	1327	1435
Phosphorus	ppm ASTM D5185(m) 1200	700	705	733
Zinc	ppm ASTM D5185(m) 1300	824	853	846
Sulfur	ppm ASTM D5185(m) 3200	2186	2041	2281
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

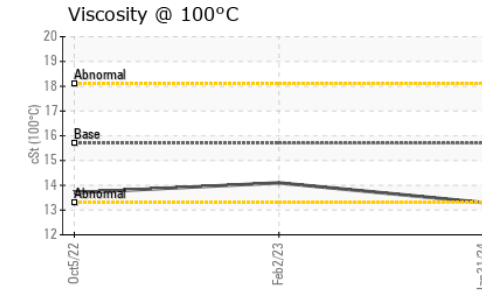
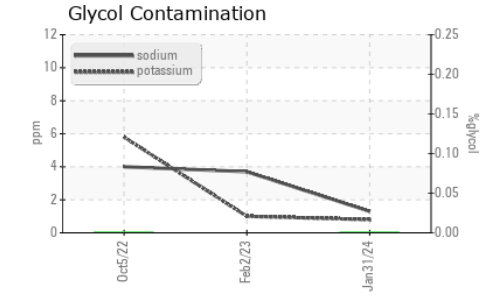
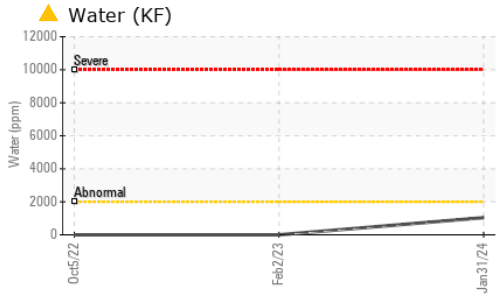
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	7	23	88
Sodium	ppm ASTM D5185(m)	1	4	4
Potassium	ppm ASTM D5185(m) >20	<1	1	6
Water	% ASTM D6304* >0.2	▲ 0.104	---	---
ppm Water	ppm ASTM D6304* >2000	▲ 1040	---	---
Glycol	% ASTM D7922*	0.0	NEG	0.0

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0	0	0
Nitration	Abs/cm ASTM D7624* >20	9.2	9.9	10.8
Sulfation	Abs./1mm ASTM D7415* >30	22.4	21.6	24.5



OIL ANALYSIS REPORT

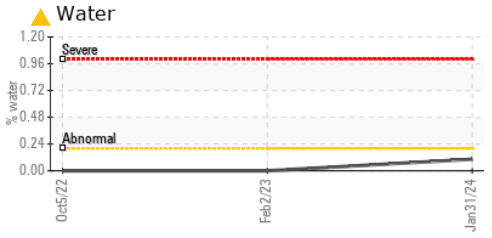
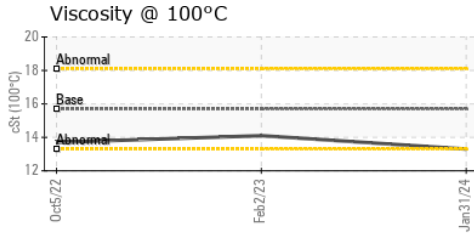
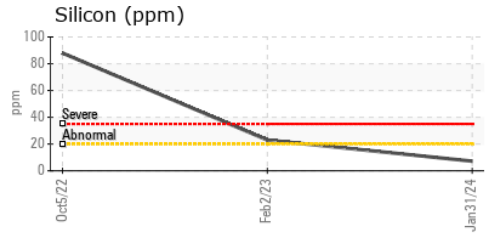
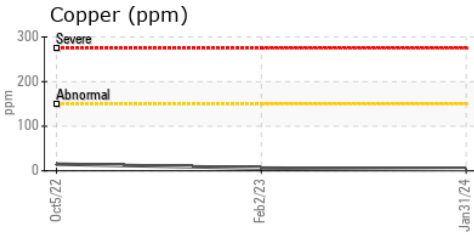
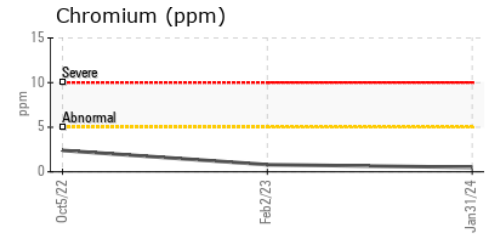
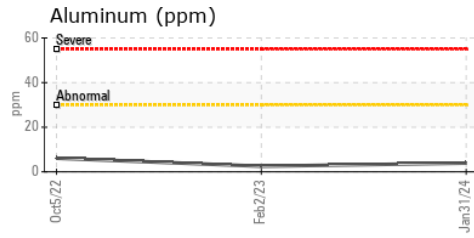
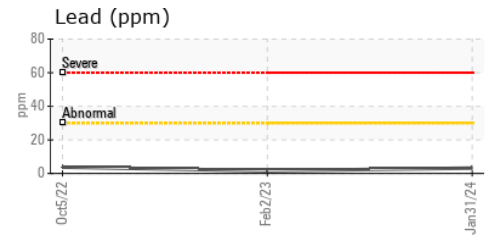
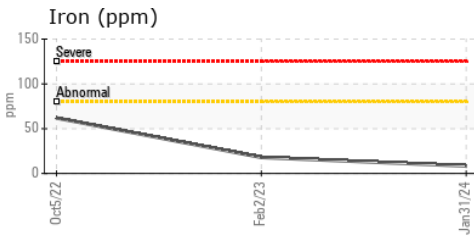


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	16.4	16.6	18.6

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
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	▲.2%	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	13.3	14.1	13.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0097040
Lab Number : 02614003
Unique Number : 5723098
Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual)
Received : 07 Feb 2024
Tested : 08 Feb 2024
Diagnosed : 08 Feb 2024 - Kevin Marson

GFL Environmental - 780 - GMA - ICI - Solid Waste
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 Laval, QC
 CA H7P 4J3
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 F:

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.