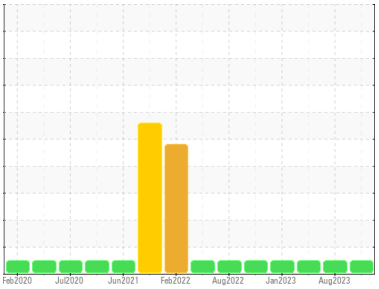
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
8416
Component
Diesel Engine
Fluid
PETRO CANADA 10W30 (--- 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 n`y a aucun indice de contamination dans l'huile.

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		**GFL0089705**	GFL0089671	GFL0078336
Sample Date		Client Info		**05 Oct 2023**	08 Aug 2023	06 Apr 2023
Machine Age	hrs	Client Info		**16546**	16346	15597
Oil Age	hrs	Client Info		**600**	600	600
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	**25**	62	27
Chromium	ppm	ASTM D5185(m)	>5	**2**	3	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	**3**	4	4
Lead	ppm	ASTM D5185(m)	>25	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>100	**2**	2	2
Tin	ppm	ASTM D5185(m)	>4	**0**	<1	<1
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)		**40**	23	33
Barium	ppm	ASTM D5185(m)		**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)		**43**	52	53
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**260**	347	455
Calcium	ppm	ASTM D5185(m)		**1945**	2013	1851
Phosphorus	ppm	ASTM D5185(m)		**988**	1118	1114
Zinc	ppm	ASTM D5185(m)		**1197**	1301	1231
Sulfur	ppm	ASTM D5185(m)		**2762**	2729	2874
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	9	7
Sodium	ppm	ASTM D5185(m)		**6**	5	3
Potassium	ppm	ASTM D5185(m)	>20	**2**	3	15

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**1**	2.4	0.8
Nitration	Abs/cm	ASTM D7624*	>20	**9.2**	13.0	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.3**	30.7	22.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.5**	22.3	17.4

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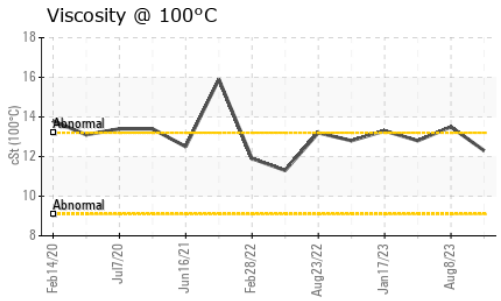
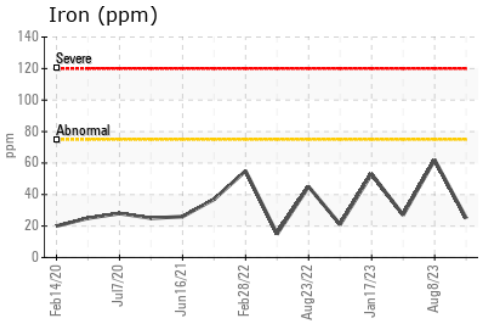
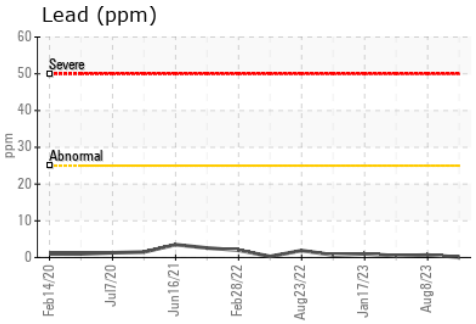


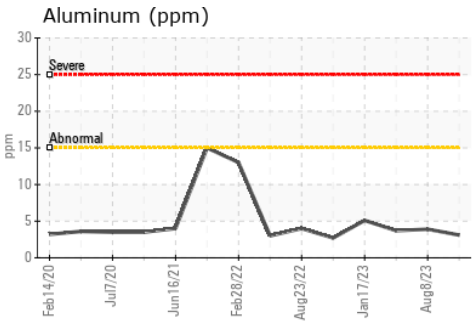
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

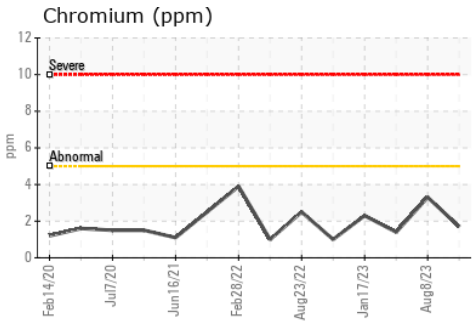
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		**12.3**	13.5	12.8

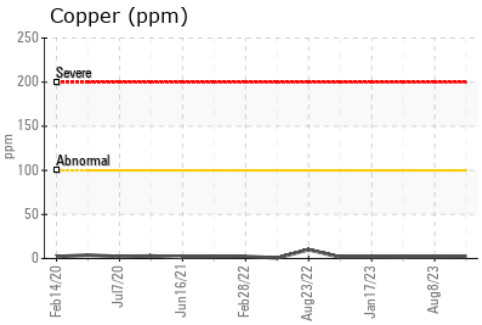
GRAPHS

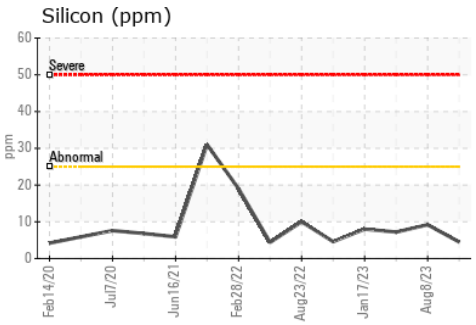


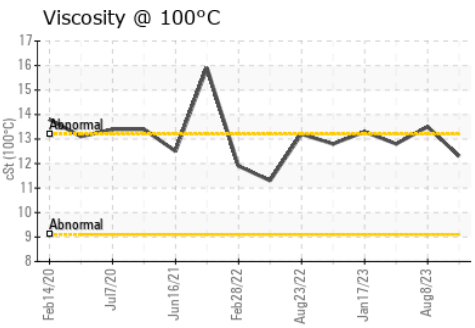


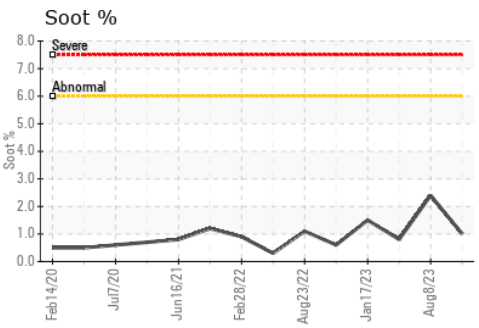












CALA Testing Accreditation No. 1005078
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0089705
Lab Number : 02588510
Unique Number : 5657576
Test Package : MOB 1

Received : 12 Oct 2023
Diagnosed : 12 Oct 2023
Diagnostician : Wes Davis

GFL Environmental - 732 - Beauce - Hauling - Solid Waste
139, 181 Street,
Beauceville, QC
CA G5X 2S9
Contact: Denis Bedard

T: (418)774-5275
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.