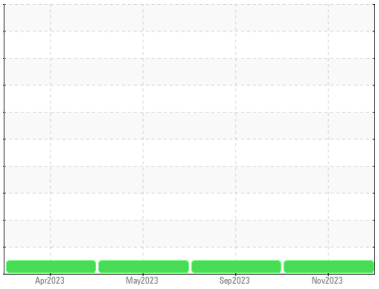
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
713063
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

DIAGNOSIS

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

Wear
Les taux de métaux sont typiques pour la période de rodage d'un nouveau composant.

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		**GFL0097090**	GFL0088900	GFL0062126
Sample Date		Client Info		**08 Nov 2023**	20 Sep 2023	26 May 2023
Machine Age	kms	Client Info		**24739**	1369	11031
Oil Age	kms	Client Info		**0**	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	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	**6**	16	10
Chromium	ppm	ASTM D5185(m)	>20	**0**	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	**1**	2	2
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	1	1
Lead	ppm	ASTM D5185(m)	>40	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>330	**6**	13	28
Tin	ppm	ASTM D5185(m)	>15	**0**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	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

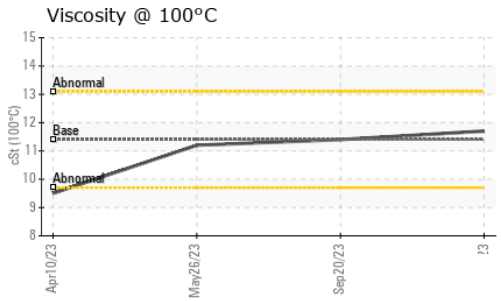
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	**3**	4	29
Barium	ppm	ASTM D5185(m)	1	**<1**	<1	0
Molybdenum	ppm	ASTM D5185(m)	1	**55**	61	67
Manganese	ppm	ASTM D5185(m)	1	**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	**894**	972	952
Calcium	ppm	ASTM D5185(m)	2942	**1024**	1071	1170
Phosphorus	ppm	ASTM D5185(m)	1102	**934**	993	1070
Zinc	ppm	ASTM D5185(m)	1351	**1111**	1199	1170
Sulfur	ppm	ASTM D5185(m)	3903	**2449**	2410	2631
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	7	16
Sodium	ppm	ASTM D5185(m)		**3**	4	2
Potassium	ppm	ASTM D5185(m)	>20	**0**	2	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	**0.1**	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	**6.5**	8.5	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.1**	20.7	19.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.4**	16.5	15.4

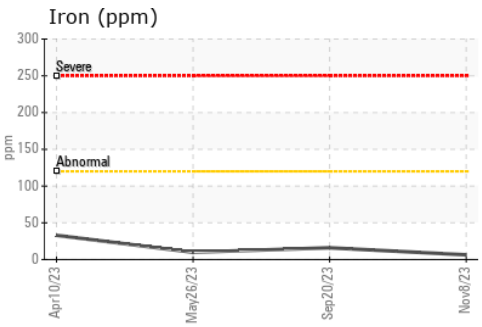
OIL ANALYSIS REPORT

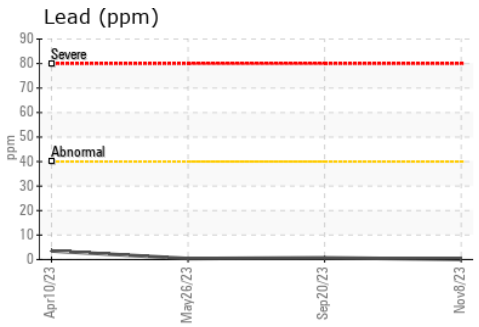


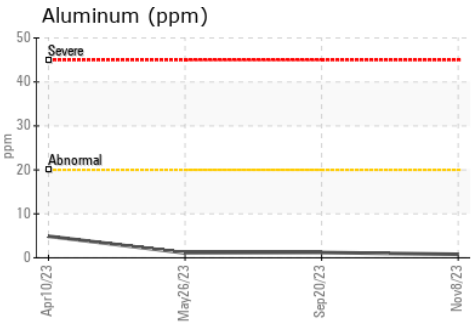
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

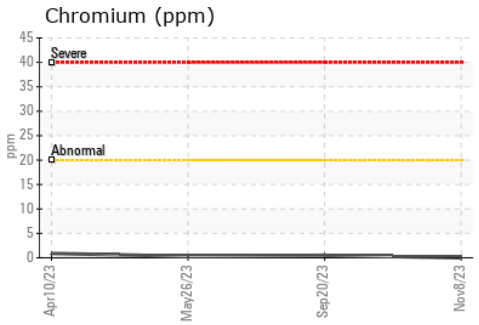
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	**11.7**	11.4	11.2

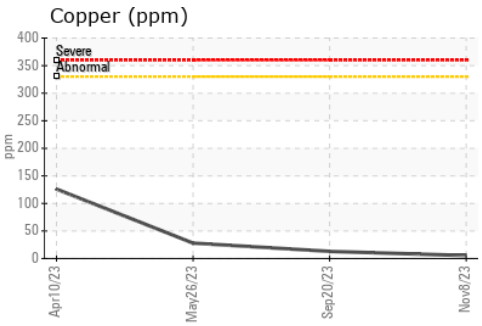
GRAPHS

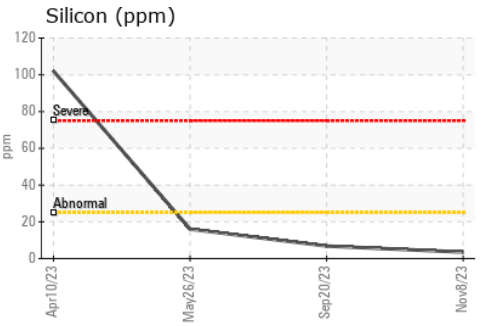


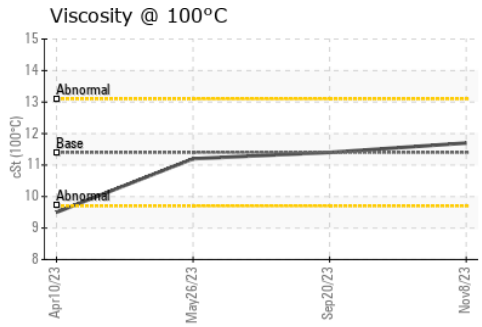


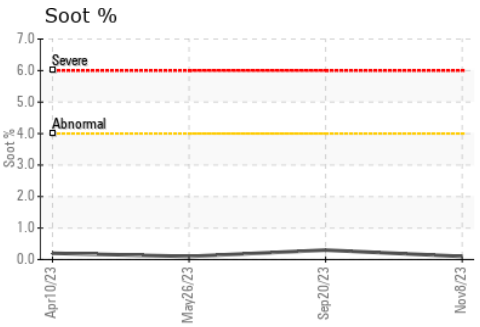












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0097090
Lab Number : 02595575
Unique Number : 5672654
Test Package : MOB 1

Received : 10 Nov 2023
Diagnosed : 10 Nov 2023
Diagnostician : Wes Davis

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.

GFL Environmental - 780 - GMA - ICI - Solid Waste
4365 boul. St-Elzear Ouest,
Laval, QC
CA H7P 4J3
Contact: Louis Michaud
louis.michaus@gflenv.com
T:
F: