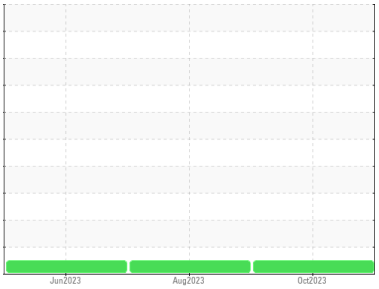
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
713072
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL 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
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		**GFL0097116**	GFL0088811	GFL0084441
Sample Date		Client Info		**25 Oct 2023**	18 Aug 2023	06 Jun 2023
Machine Age	kms	Client Info		**32875**	25690	17389
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<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)	>100	**25**	28	31
Chromium	ppm	ASTM D5185(m)	>20	**2**	2	1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**14**	18	8
Lead	ppm	ASTM D5185(m)	>40	**2**	4	12
Copper	ppm	ASTM D5185(m)	>330	**106**	180	448
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	2
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

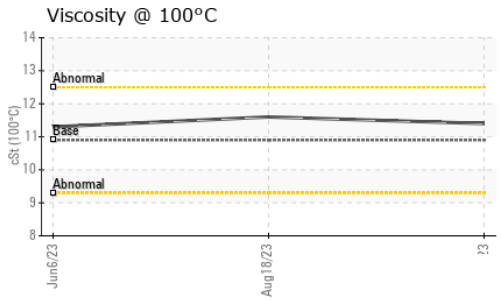
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**2**	3	11
Barium	ppm	ASTM D5185(m)	10	**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**68**	60	58
Manganese	ppm	ASTM D5185(m)		**<1**	<1	2
Magnesium	ppm	ASTM D5185(m)	450	**1094**	983	887
Calcium	ppm	ASTM D5185(m)	3000	**1297**	1096	1276
Phosphorus	ppm	ASTM D5185(m)	1150	**1095**	987	1021
Zinc	ppm	ASTM D5185(m)	1350	**1379**	1187	1145
Sulfur	ppm	ASTM D5185(m)	4250	**2400**	1948	2118
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	4	4
Sodium	ppm	ASTM D5185(m)		**2**	2	2
Potassium	ppm	ASTM D5185(m)	>20	**37**	53	22

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.6**	0.8	0.5
Nitration	Abs/cm	ASTM D7624*	>20	**7.2**	8.1	8.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.6**	21.8	20.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.5**	16.1	17.0

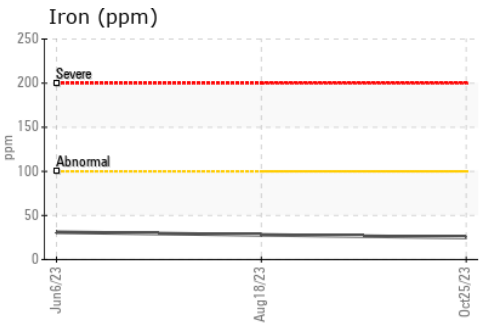
OIL ANALYSIS REPORT

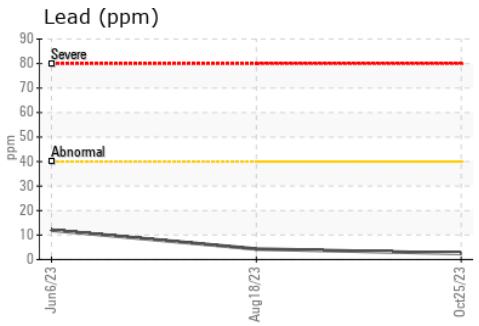


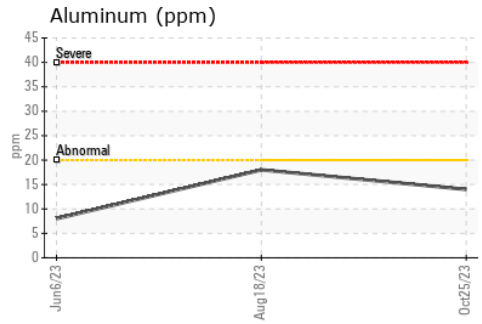
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

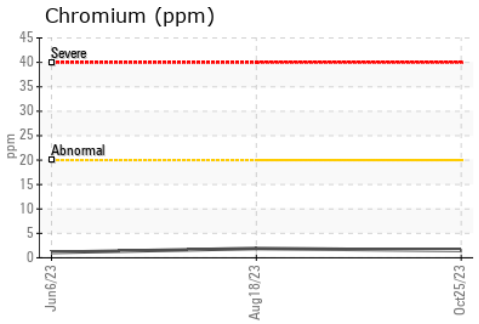
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.4**	11.6	11.3

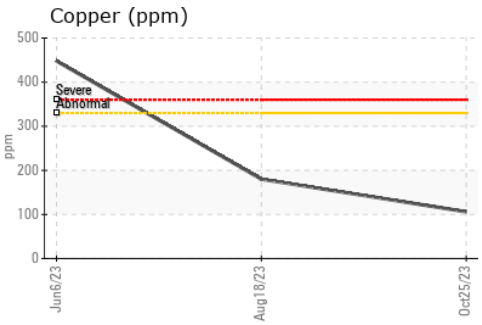
GRAPHS

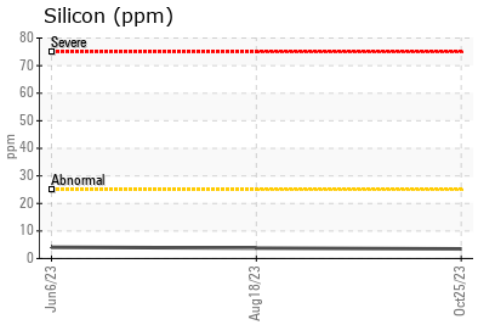


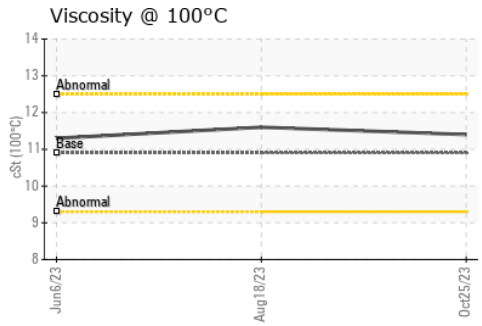


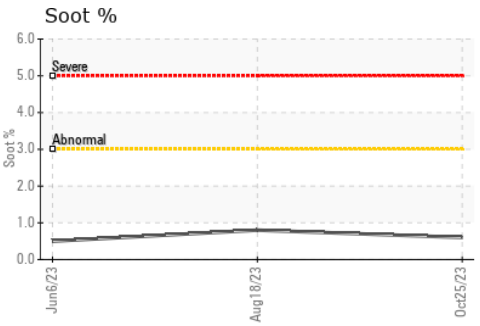












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0097116
Lab Number : 02592885
Unique Number : 5669964
Test Package : MOB 1

Received : 31 Oct 2023
Diagnosed : 31 Oct 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: Pieces Laval
pieces.laval@gflenv.com
T: (450)687-3838
F: