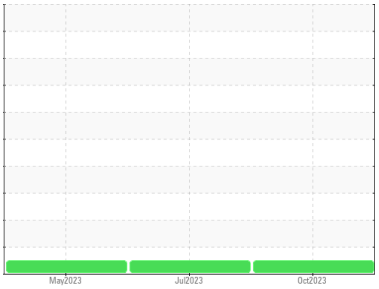
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
713073
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		**GFL0097135**	GFL0084419	GFL0062044
Sample Date		Client Info		**25 Oct 2023**	12 Jul 2023	04 May 2023
Machine Age	kms	Client Info		**27125**	989	588
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	>5	**<1.0**	<1.0	0.6
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**27**	17	34
Chromium	ppm	ASTM D5185(m)	>20	**2**	<1	1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	1
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**11**	4	4
Lead	ppm	ASTM D5185(m)	>40	**6**	8	3
Copper	ppm	ASTM D5185(m)	>330	**244**	351	142
Tin	ppm	ASTM D5185(m)	>15	**<1**	1	3
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	**3**	8	50
Barium	ppm	ASTM D5185(m)	10	**<1**	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	**67**	57	41
Manganese	ppm	ASTM D5185(m)		**<1**	1	4
Magnesium	ppm	ASTM D5185(m)	450	**1083**	907	502
Calcium	ppm	ASTM D5185(m)	3000	**1347**	1142	1727
Phosphorus	ppm	ASTM D5185(m)	1150	**1105**	1016	773
Zinc	ppm	ASTM D5185(m)	1350	**1382**	1138	841
Sulfur	ppm	ASTM D5185(m)	4250	**2363**	2217	1892
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	4	6
Sodium	ppm	ASTM D5185(m)		**2**	2	5
Potassium	ppm	ASTM D5185(m)	>20	**44**	13	11

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.4**	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	**7.8**	7.4	8.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.2**	21.0	23.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.0**	16.3	21.7

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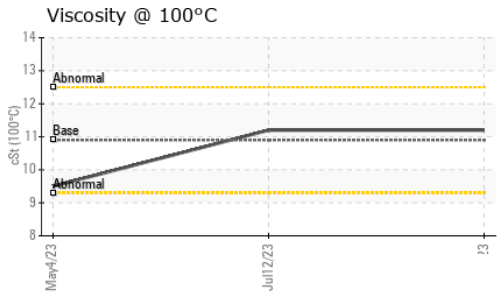
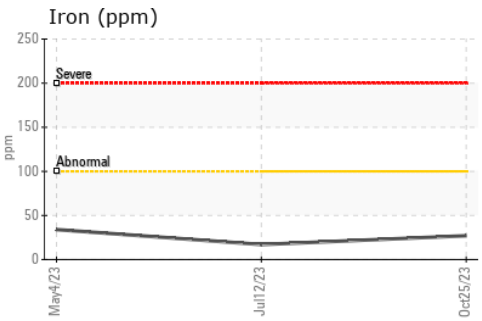
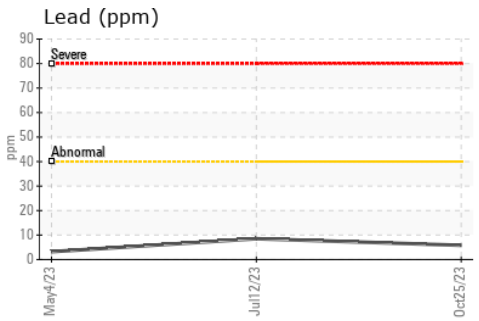


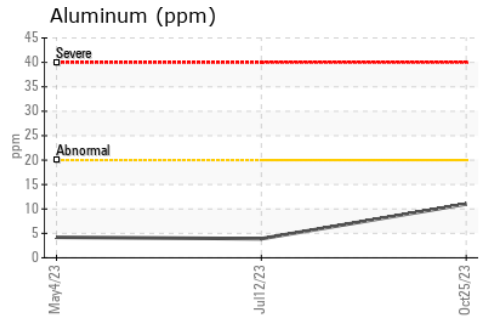
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

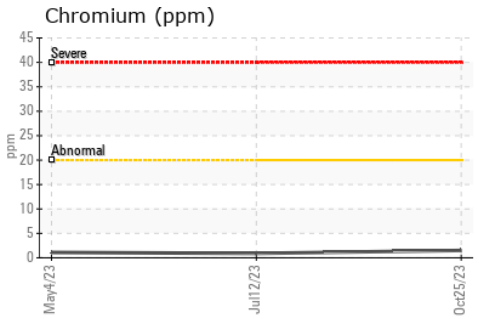
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.2**	11.2	9.5

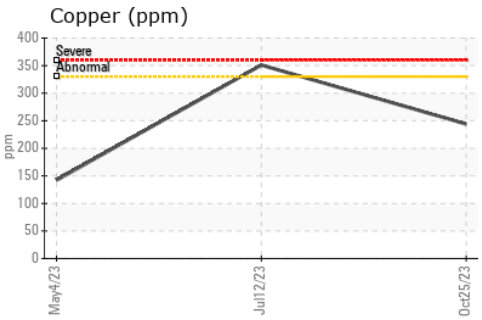
GRAPHS

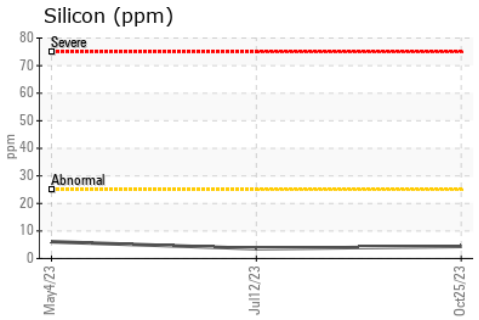


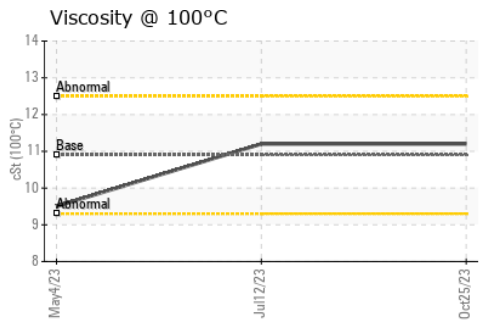


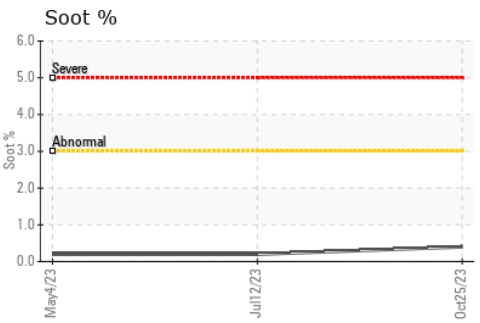












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 780 - GMA - ICI - Solid Waste**
Sample No. : GFL0097135 **Received** : 31 Oct 2023
Lab Number : 02593006 **Diagnosed** : 31 Oct 2023
Unique Number : 5670085 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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.