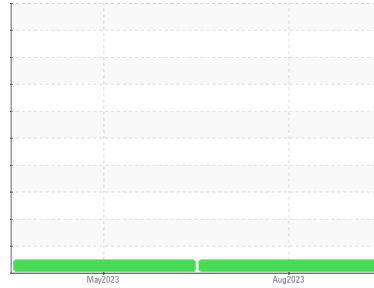




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
713068

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		GFL0088840	GFL0073414	---
Sample Date	Client Info		11 Aug 2023	16 May 2023	---
Machine Age	kms	Client Info	31246	18422	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	38	67	---
Chromium	ppm	ASTM D5185(m) >20	3	3	---
Nickel	ppm	ASTM D5185(m) >4	<1	1	---
Titanium	ppm	ASTM D5185(m)	0	<1	---
Silver	ppm	ASTM D5185(m) >3	<1	<1	---
Aluminum	ppm	ASTM D5185(m) >20	29	19	---
Lead	ppm	ASTM D5185(m) >40	7	2	---
Copper	ppm	ASTM D5185(m) >330	278	100	---
Tin	ppm	ASTM D5185(m) >15	1	3	---
Antimony	ppm	ASTM D5185(m)	0	<1	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	5	26	---
Barium	ppm	ASTM D5185(m) 10	0	<1	---
Molybdenum	ppm	ASTM D5185(m) 100	58	44	---
Manganese	ppm	ASTM D5185(m)	1	4	---
Magnesium	ppm	ASTM D5185(m) 450	931	568	---
Calcium	ppm	ASTM D5185(m) 3000	1188	1731	---
Phosphorus	ppm	ASTM D5185(m) 1150	985	780	---
Zinc	ppm	ASTM D5185(m) 1350	1146	895	---
Sulfur	ppm	ASTM D5185(m) 4250	1983	1818	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	6	8	---
Sodium	ppm	ASTM D5185(m)	2	5	---
Potassium	ppm	ASTM D5185(m) >20	93	55	---

INFRA-RED

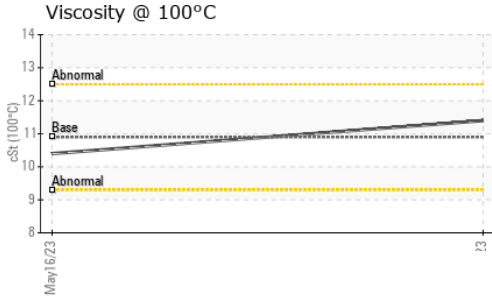
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.7	0.8	---
Nitration	Abs/cm	ASTM D7624* >20	9.3	11.1	---
Sulfation	Abs/.1mm	ASTM D7415* >30	22.2	23.9	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	17.3	22.7	---



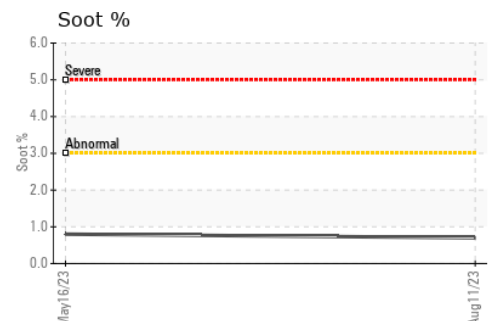
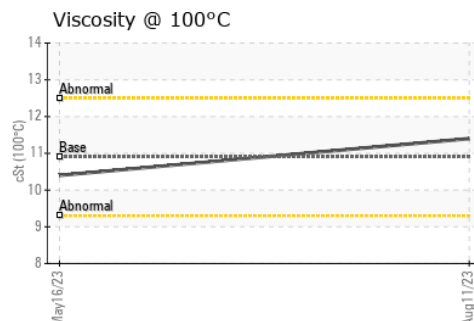
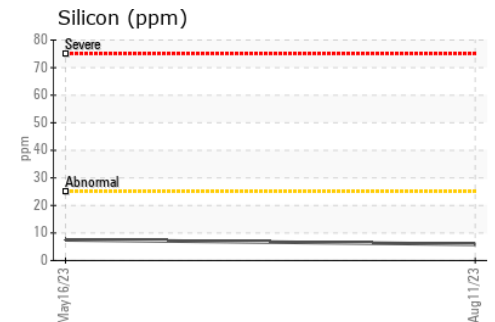
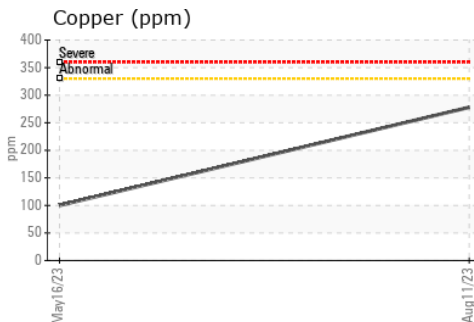
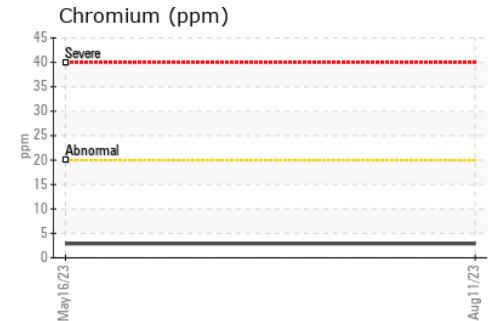
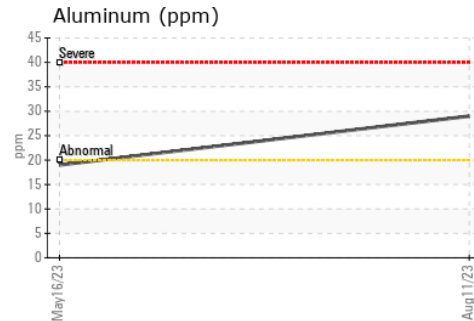
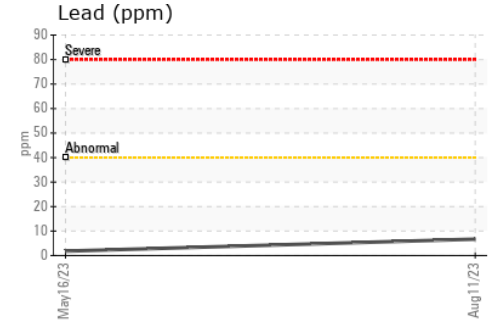
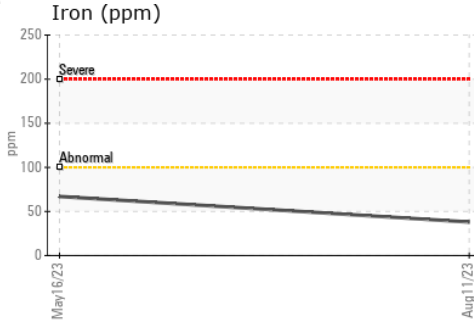
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.4	10.4

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. : GFL0088840 **Received** : 24 Aug 2023 4365 boul. St-Elzear Ouest,
Lab Number : 02577969 **Diagnosed** : 24 Aug 2023 Laval, QC
Unique Number : 5631029 **Diagnostician** : Wes Davis CA H7P 4J3
Test Package : MOB 1 Contact: Pieces Laval

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.

pieces.laval@gflenv.com

T: (450)687-3838

F: