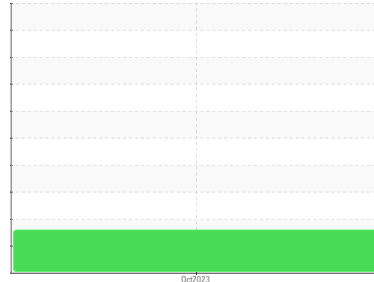




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
Ford F350
 Component
Diesel Engine
 Fluid
SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

The component was not specified so we have determined that this is a diesel engine based on the fluid type in use. Please specify the correct component type on your next sample. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of dirt present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0077012	---	---
Sample Date	Client Info	04 Oct 2023	---	---
Machine Age	kms Client Info	203573	---	---
Oil Age	kms Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	49	---	---
Chromium	ppm ASTM D5185(m) >20	2	---	---
Nickel	ppm ASTM D5185(m) >4	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m) >3	<1	---	---
Aluminum	ppm ASTM D5185(m) >20	5	---	---
Lead	ppm ASTM D5185(m) >40	<1	---	---
Copper	ppm ASTM D5185(m) >330	3	---	---
Tin	ppm ASTM D5185(m) >15	0	---	---
Antimony	ppm ASTM D5185(m)	0	---	---
Vanadium	ppm ASTM D5185(m)	0	---	---
Beryllium	ppm ASTM D5185(m)	0	---	---
Cadmium	ppm ASTM D5185(m)	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	2	---	---
Barium	ppm ASTM D5185(m)	<1	---	---
Molybdenum	ppm ASTM D5185(m)	55	---	---
Manganese	ppm ASTM D5185(m)	0	---	---
Magnesium	ppm ASTM D5185(m)	828	---	---
Calcium	ppm ASTM D5185(m)	909	---	---
Phosphorus	ppm ASTM D5185(m)	861	---	---
Zinc	ppm ASTM D5185(m)	1019	---	---
Sulfur	ppm ASTM D5185(m)	2237	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	▲ 40	---	---
Sodium	ppm ASTM D5185(m) >228	3	---	---
Potassium	ppm ASTM D5185(m) >20	0	---	---

INFRA-RED

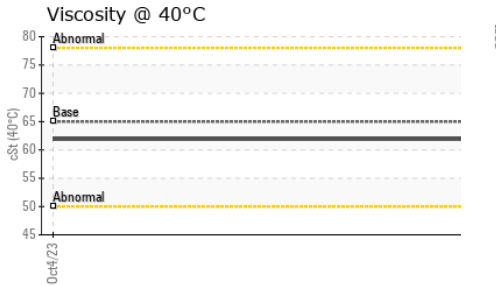
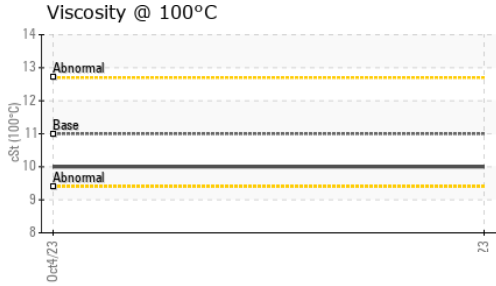
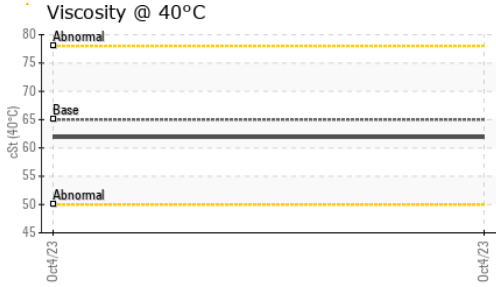
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	1	---	---
Nitration	Abs/cm ASTM D7624* >20	15.6	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	29.9	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	34.3	---	---



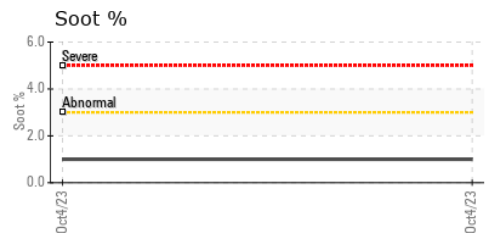
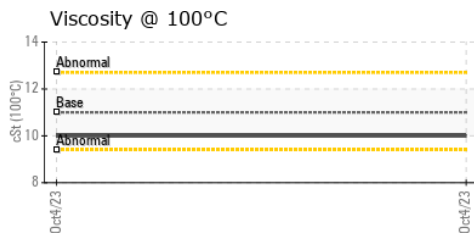
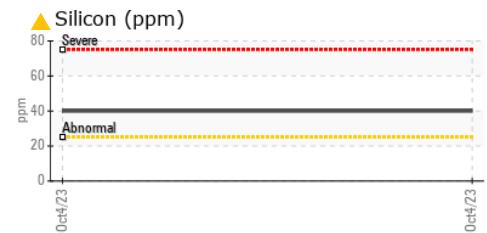
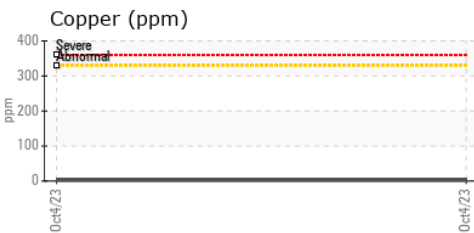
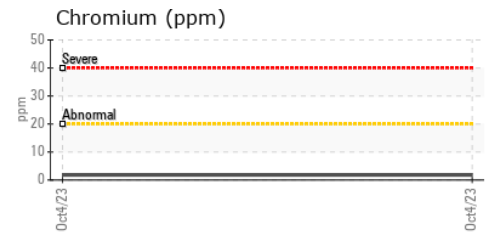
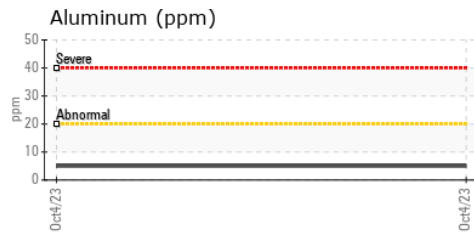
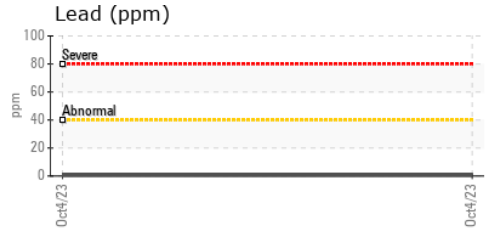
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	65.0	61.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	10.0	---
Viscosity Index (VI)	Scale	ASTM D2270*	161	147	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling
Sample No. : GFL0077012 **Received** : 06 Oct 2023 38950 Queens Way,
Lab Number : 02587496 **Diagnosed** : 06 Oct 2023 Squamish, BC
Unique Number : 5656562 **Diagnostician** : Kevin Marson CA V8B 0K8
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual) Contact: Dean Imbeau
 dimbeau@gflenv.com

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.

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