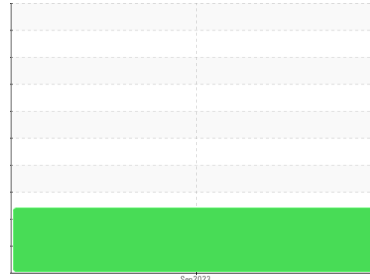




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

## Shane`s pick up

Component

### Diesel Engine

Fluid

### DISEL ENGINE OIL SAE 10W30 (7 LTR)

#### DIAGNOSIS

##### ▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

##### Wear

All component wear rates are normal.

##### ▲ Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

##### ▲ Fluid Condition

Calcium ppm levels are abnormally low. Zinc ppm levels are abnormally low. Visc @ 100°C is abnormally low. Visc @ 40°C is abnormally low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

#### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0035517</b>	---	---
Sample Date	Client Info	<b>18 Sep 2023</b>	---	---
Machine Age	kms	Client Info	<b>487986</b>	---
Oil Age	kms	Client Info	<b>10000</b>	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

#### CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	<b>NEG</b>	---	---

#### WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>100	<b>8</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

#### ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)	250	<b>36</b>	---	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>76</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	450	<b>522</b>	---	---
Calcium	ppm	ASTM D5185(m)	3000	<b>▲ 935</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>675</b>	---	---
Zinc	ppm	ASTM D5185(m)	1350	<b>▲ 720</b>	---	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2211</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

#### CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>25	<b>17</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Fuel	%	ASTM D7593*	>5	<b>▲ 5.6</b>	---	---

#### INFRA-RED

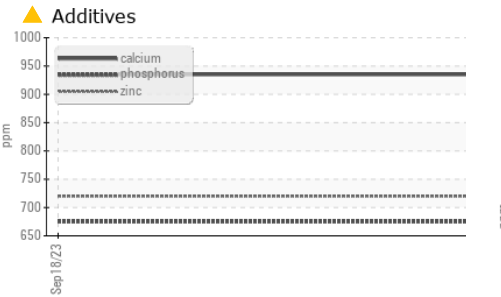
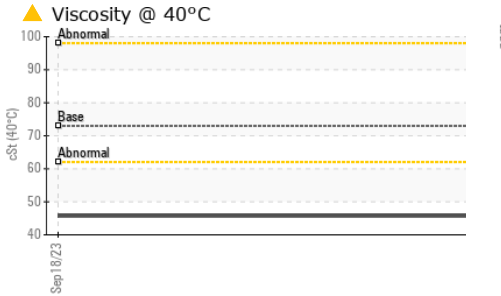
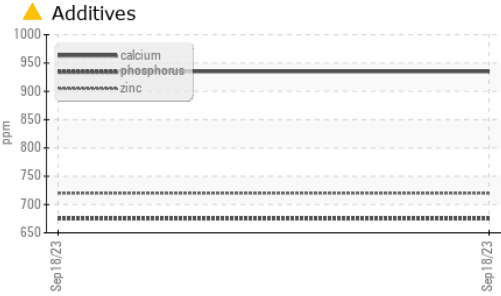
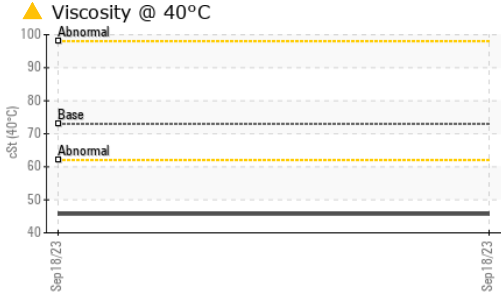
method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.3</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.0</b>	---	---

#### FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.9</b>	---	---



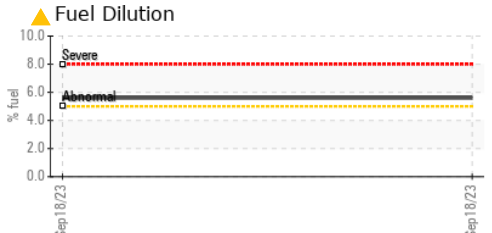
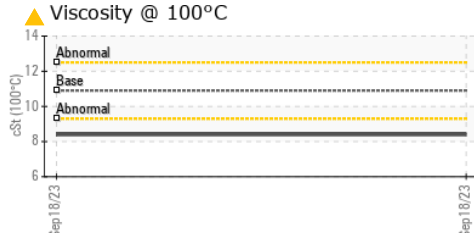
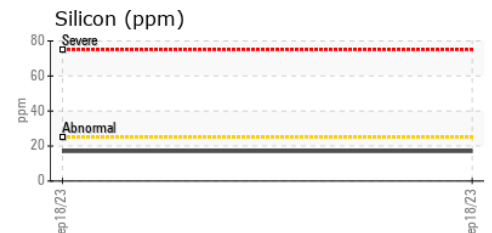
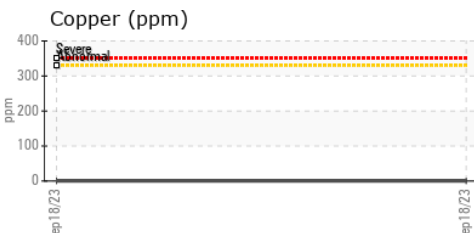
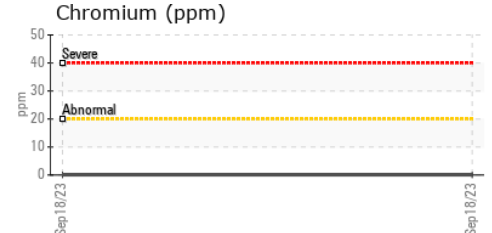
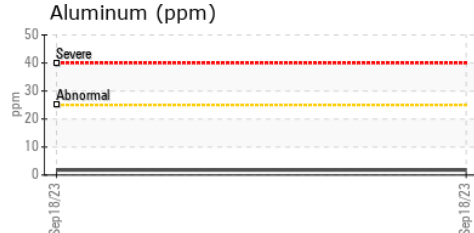
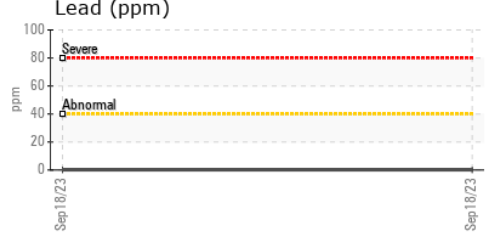
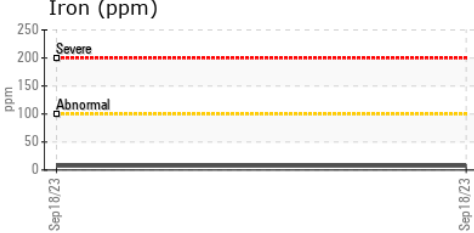
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	73	▲ 45.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	▲ 8.4	---
Viscosity Index (VI)	Scale	ASTM D2270*	138	162	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 213 - Kitchener**  
**Sample No.** : GFL0035517 **Received** : 20 Sep 2023 **16 Centennial Road, Kitchener Yard**  
**Lab Number** : 02583869 **Diagnosed** : 21 Sep 2023 **Kitchener, ON**  
**Unique Number** : 5644934 **Diagnostician** : Wes Davis **CA N2B 3G1**  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual ) **Contact: Keith Zehr**  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. **kzehr@gflenv.com**  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **T: (226)751-4416**  
 Validity of results and interpretation are based on the sample and information as supplied. **F: x:**