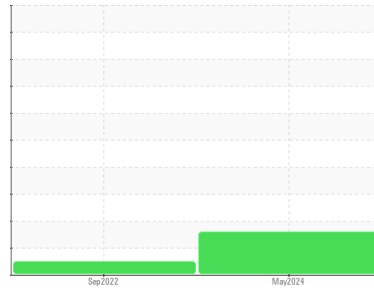




# OIL ANALYSIS REPORT

## Sample Rating Trend



FUEL



Machine Id  
**351271**  
 Component  
**Gasoline Engine**  
 Fluid  
**IRVING 5W30 (7 LTR)**

### DIAGNOSIS

#### ● Recommendation

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

#### ● Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>GFL0105881</b>	GFL0054509	---
Sample Date	Client Info			<b>30 May 2024</b>	09 Sep 2022	---
Machine Age	kms	Client Info		<b>0</b>	10037	---
Oil Age	kms	Client Info		<b>0</b>	5212	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>ATTENTION</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.2		<b>NEG</b>	NEG	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	<b>5</b>	13	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>40	<b>2</b>	3	---
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>155	<b>&lt;1</b>	12	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

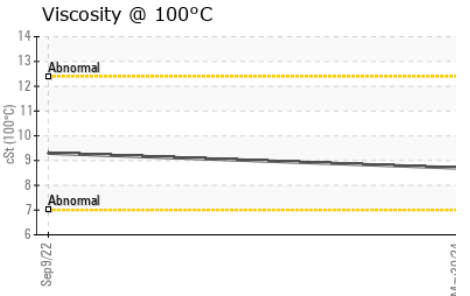
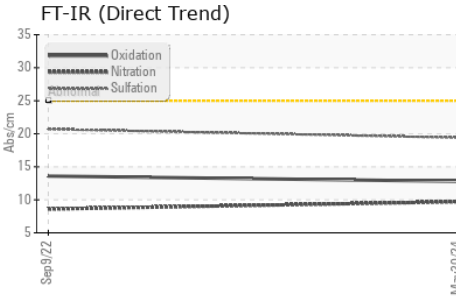
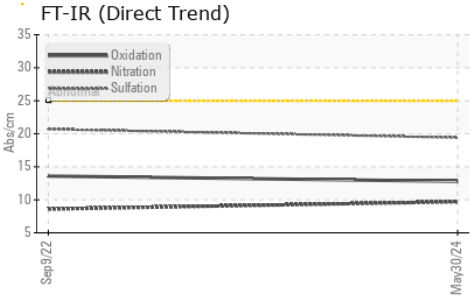
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>128</b>	85	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)		<b>71</b>	81	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	11	---
Magnesium	ppm	ASTM D5185(m)		<b>511</b>	447	---
Calcium	ppm	ASTM D5185(m)		<b>1246</b>	1194	---
Phosphorus	ppm	ASTM D5185(m)		<b>639</b>	698	---
Zinc	ppm	ASTM D5185(m)		<b>744</b>	691	---
Sulfur	ppm	ASTM D5185(m)		<b>2413</b>	2317	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	<b>8</b>	20	---
Sodium	ppm	ASTM D5185(m)	>400	<b>2</b>	7	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	---
Fuel	%	ASTM D7593*	>4.0	<b>3.5</b>	1.9	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	8.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	20.7	---



# OIL ANALYSIS REPORT

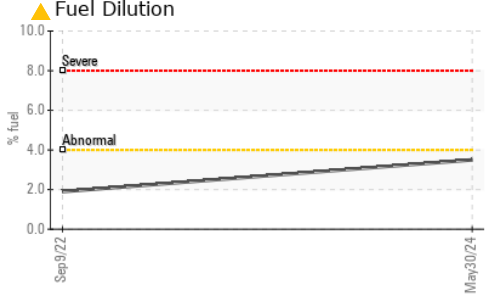
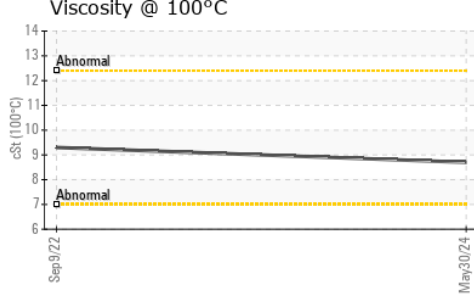
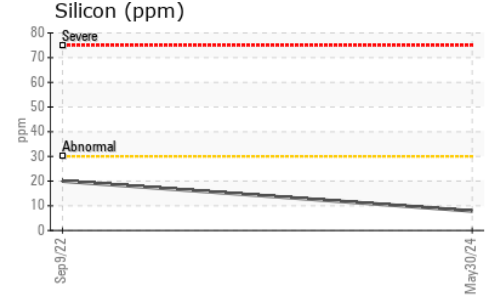
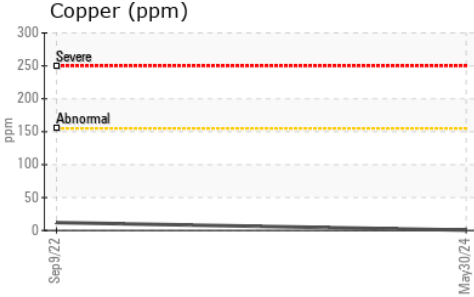
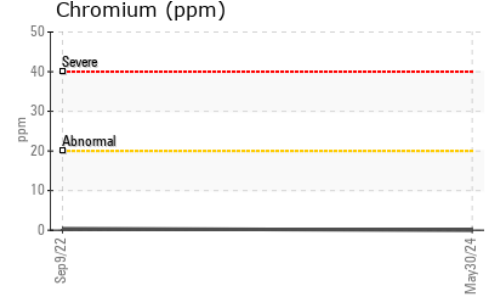
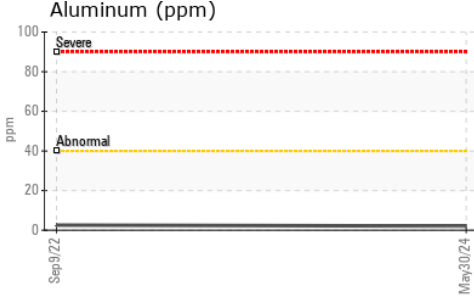
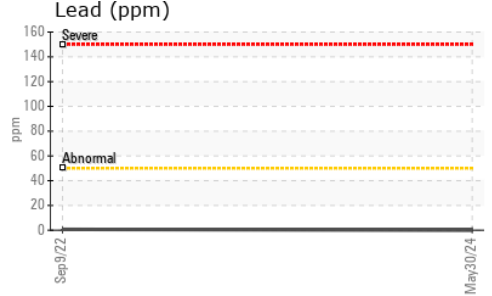
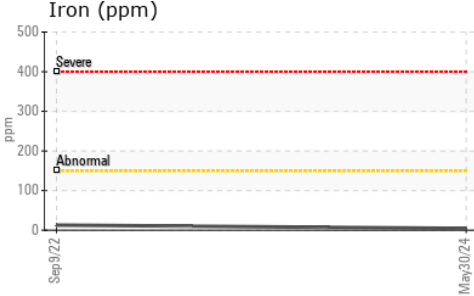


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>12.8</b>	13.6	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		<b>8.7</b>	9.3	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0105881      **Received** : 31 May 2024  
**Lab Number** : 02639060      **Tested** : 04 Jun 2024  
**Unique Number** : 5788222      **Diagnosed** : 04 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, PercentFuel )

**GFL Environmental - 348**  
 1027 Kirk Line East  
 Bracebridge, ON  
 CA P1L 0A1  
 Contact: Royce Reid  
 roycereid@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.