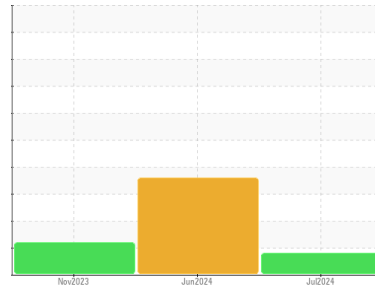




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

**250027**

Component

**Diesel Engine**

Fluid

**MOTORCRAFT SUPER PREMIUM SAE 10W30 (--- GAL)**

## 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

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>GFL0125519</b>	GFL0100581	GFL0100636
Sample Date	Client Info		<b>03 Jul 2024</b>	11 Jun 2024	25 Nov 2023
Machine Age	hrs	Client Info	<b>181792</b>	177994	146554
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	SEVERE	ABNORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>18</b>	52	87
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	3
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>1</b>	▲ 2	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	2	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	2	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>1</b>	1	3
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>53</b>	51	48
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>860</b>	819	751
Calcium	ppm	ASTM D5185(m)		<b>911</b>	880	877
Phosphorus	ppm	ASTM D5185(m)		<b>913</b>	834	803
Zinc	ppm	ASTM D5185(m)		<b>1071</b>	991	977
Sulfur	ppm	ASTM D5185(m)		<b>2312</b>	1971	1999
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

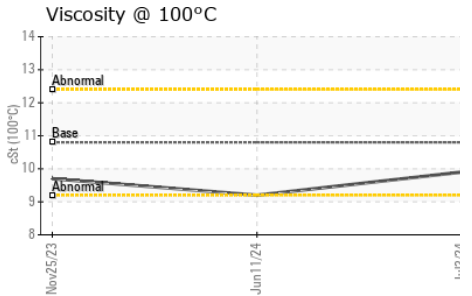
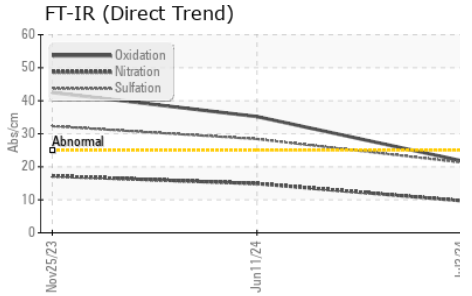
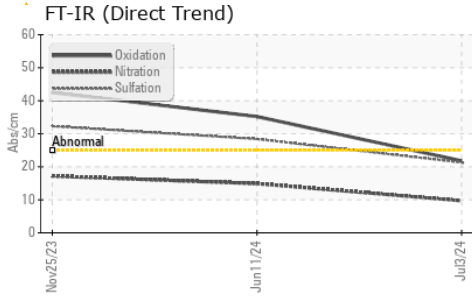
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	6	9
Sodium	ppm	ASTM D5185(m)		<b>1</b>	12	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	7	<1
Fuel	%	ASTM D7593*	>5	▲ <b>6.3</b>	▲ 24.6	▲ 2.4

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.6	0.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	14.9	17.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.3</b>	28.4	32.3



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	<b>21.8</b>	35.2	42.5

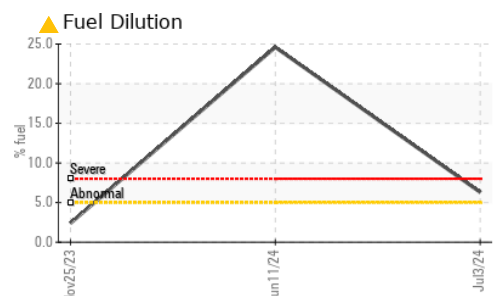
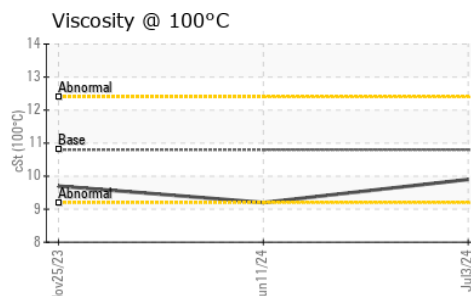
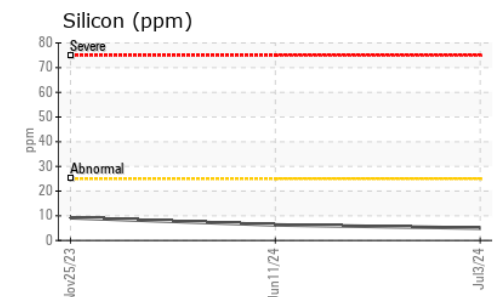
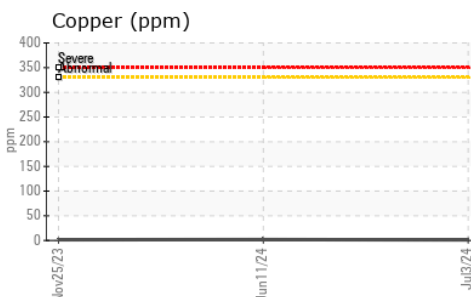
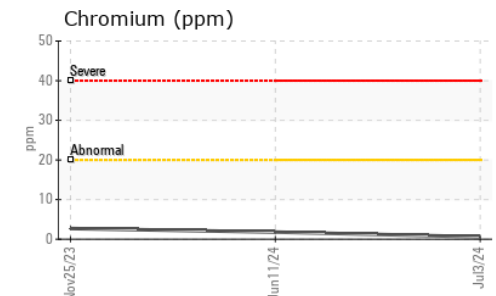
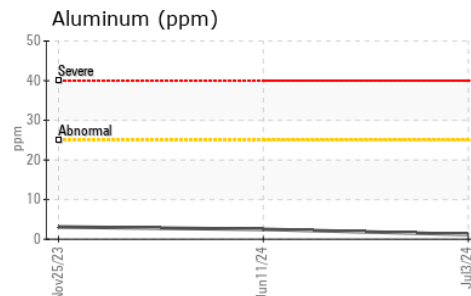
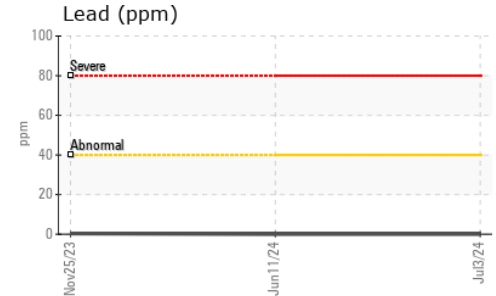
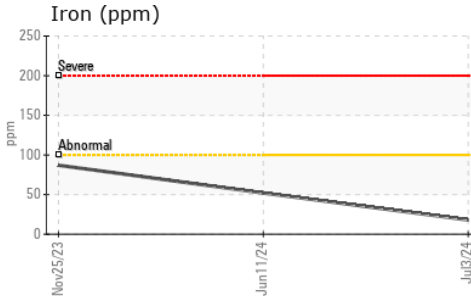
### VISUAL

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

### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	<b>9.9</b>	▲ 9.2	▲ 9.7

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0125519      **Received** : 05 Jul 2024  
**Lab Number** : **02645762**      **Tested** : 08 Jul 2024  
**Unique Number** : 5803301      **Diagnosed** : 08 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

**GFL Environmental - 575 - Squamish Hauling**  
 38950 Queens Way,  
 Squamish, BC  
 CA V8B 0K8  
 Contact: Dean Imbeau  
 dimbeau@gflenv.com  
 T: (604)892-5604  
 F: (604)892-5238

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.