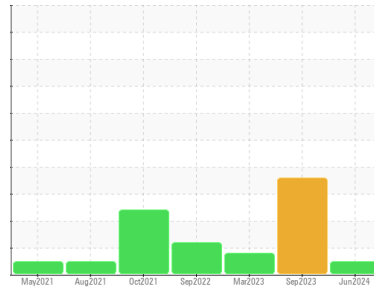




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**255004**  
 Component  
**Gasoline Engine**  
 Fluid  
**SAE 5W20 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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>GFL0096803</b>	GFL0084118	GFL0073160
Sample Date	Client Info		<b>30 Jun 2024</b>	26 Sep 2023	15 Mar 2023
Machine Age	kms	Client Info	<b>271259</b>	250360	7024
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	ATTENTION	MARGINAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	▲ 2.2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	▲ 0.012	0.0

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>150	<b>32</b>	44	39
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	1
Titanium	ppm	ASTM D5185(m)		<b>4</b>	7	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>40	<b>3</b>	6	4
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>155	<b>6</b>	8	4
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
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>25</b>	19	11
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>69</b>	103	66
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>568</b>	634	401
Calcium	ppm	ASTM D5185(m)		<b>945</b>	1292	1146
Phosphorus	ppm	ASTM D5185(m)		<b>663</b>	657	628
Zinc	ppm	ASTM D5185(m)		<b>742</b>	809	652
Sulfur	ppm	ASTM D5185(m)		<b>2062</b>	1972	1766
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

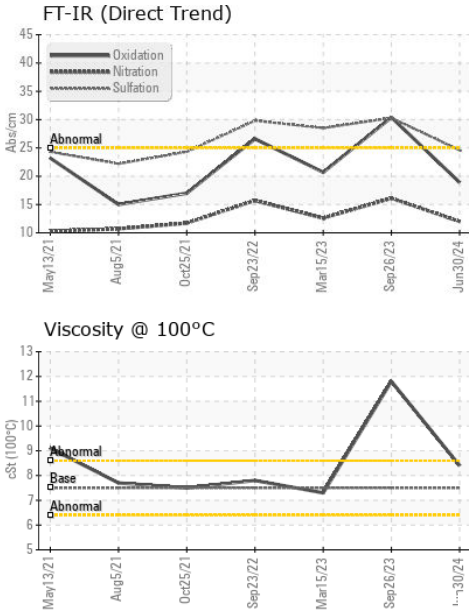
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>30	<b>5</b>	8	5
Sodium	ppm	ASTM D5185(m)		<b>17</b>	● 24	21
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.0</b>	16.1	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.6</b>	30.3	28.5



# OIL ANALYSIS REPORT

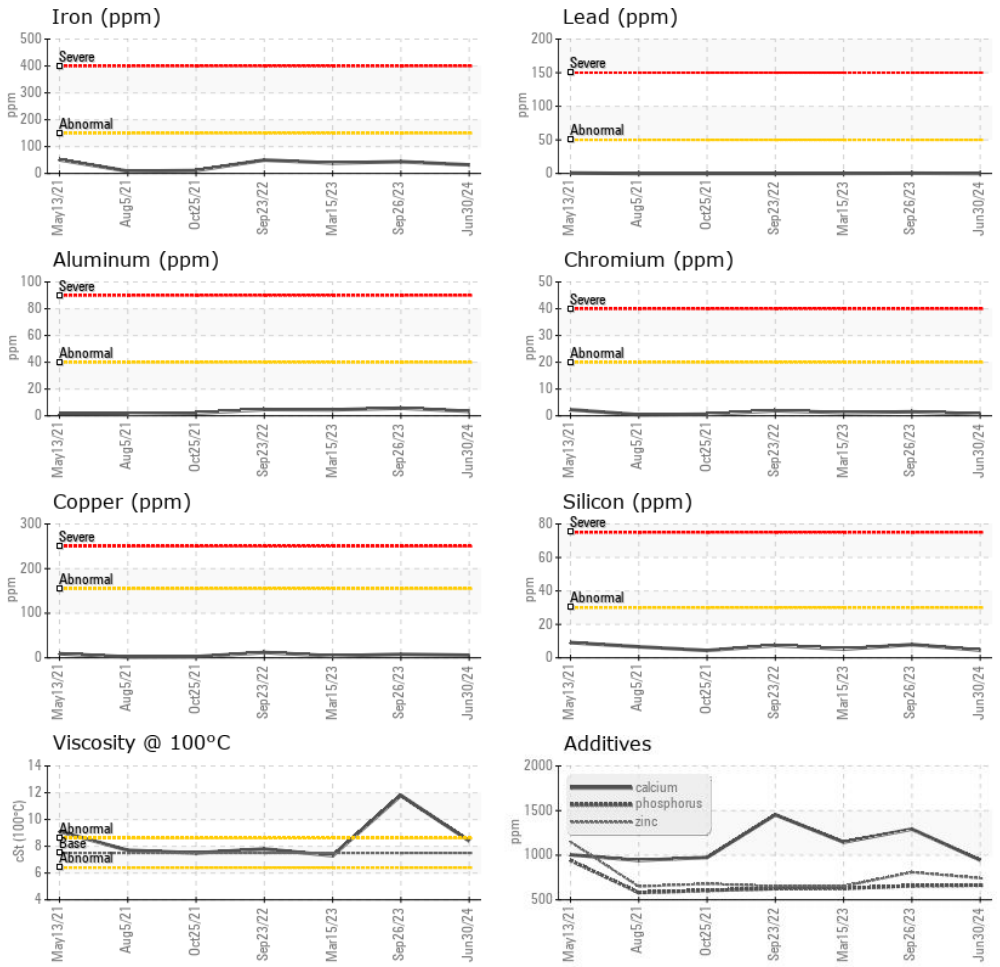


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>18.9</b>	30.4	20.7

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<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)	7.5	<b>8.4</b>	11.8	7.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0096803  
**Lab Number** : 02646615  
**Unique Number** : 5812167  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GFL Environmental - 574 - Coquitlam**  
 70 Golden Drive,  
 Coquitlam, BC  
 CA V3K 6B5

**Received** : 09 Jul 2024  
**Tested** : 09 Jul 2024  
**Diagnosed** : 09 Jul 2024 - Kevin Marson

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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