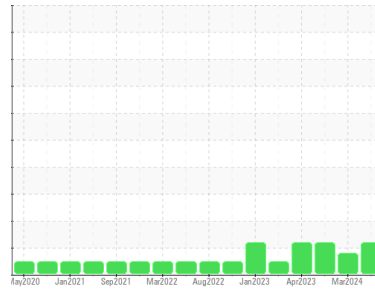




# OIL ANALYSIS REPORT

## Sample Rating Trend



FUEL



Machine Id  
**727006**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. 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

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>GFL0113221</b>	GFL0102897	GFL0097325
Sample Date	Client Info		<b>18 Jun 2024</b>	15 Mar 2024	14 Dec 2023
Machine Age	hrs	Client Info	<b>0</b>	19548	0
Oil Age	hrs	Client Info	<b>20165</b>	0	18988
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	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) >120	<b>7</b>	8	7
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >40	<b>3</b>	<1	1
Copper	ppm	ASTM D5185(m) >330	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	<1
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) 250	<b>27</b>	6	26
Barium	ppm	ASTM D5185(m) 10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 100	<b>41</b>	57	40
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m) 450	<b>489</b>	851	495
Calcium	ppm	ASTM D5185(m) 3000	<b>1516</b>	1096	1616
Phosphorus	ppm	ASTM D5185(m) 1150	<b>657</b>	913	693
Zinc	ppm	ASTM D5185(m) 1350	<b>834</b>	1080	825
Sulfur	ppm	ASTM D5185(m) 4250	<b>1825</b>	2370	1967
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

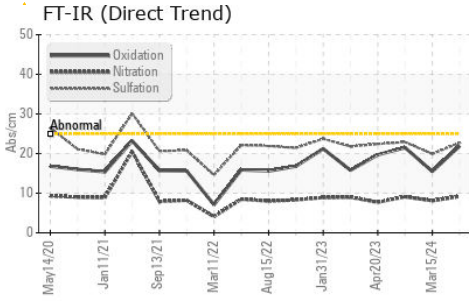
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	2	4
Sodium	ppm	ASTM D5185(m) >158	<b>3</b>	3	2
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	2	<1
Fuel	%	ASTM D7593* >3.0	<b>▲ 3.3</b>	▲ 3.5	▲ 4.1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >4	<b>0.3</b>	0.5	0.6
Nitration	Abs/cm	ASTM D7624* >20	<b>9.2</b>	8.1	9.1
Sulfation	Abs./1mm	ASTM D7415* >30	<b>22.7</b>	19.9	22.9



# OIL ANALYSIS REPORT



## FLUID DEGRADATION

Parameter	Method	Limit/Base	Current	History1	History2	
Oxidation	Abs./1mm	ASTM D7414*	>25	21.9	15.5	21.5

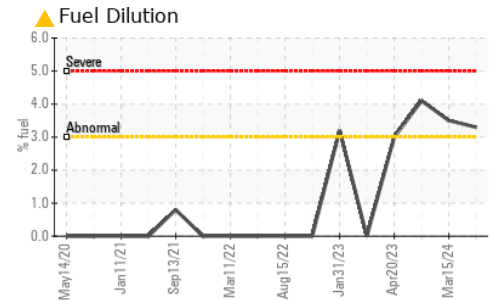
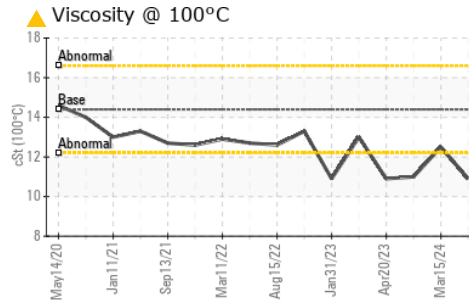
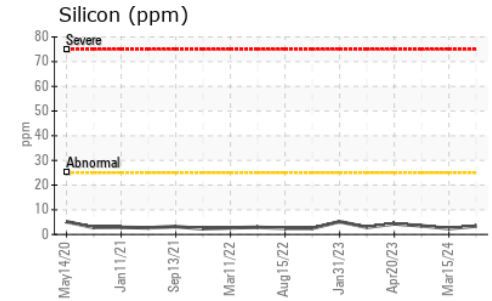
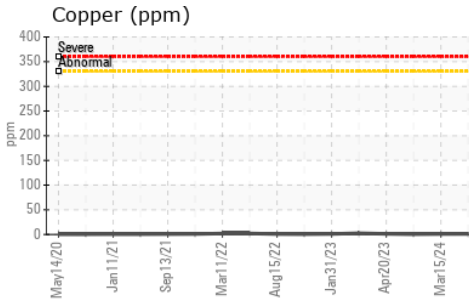
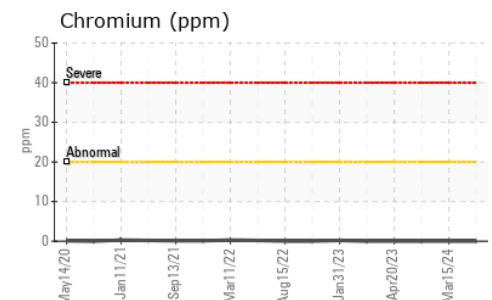
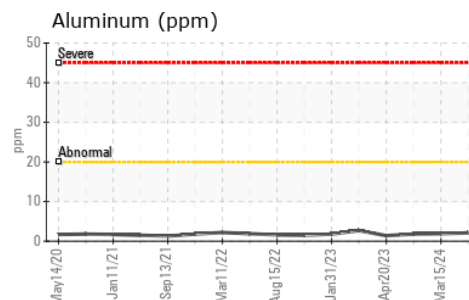
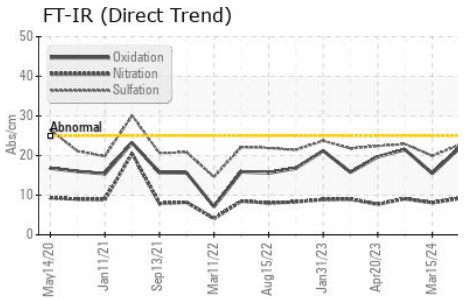
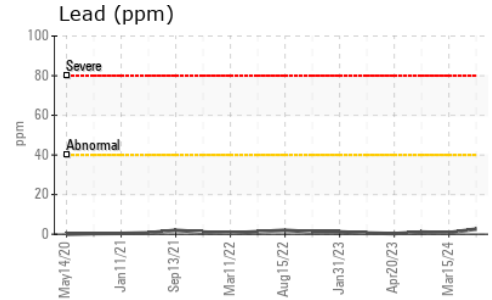
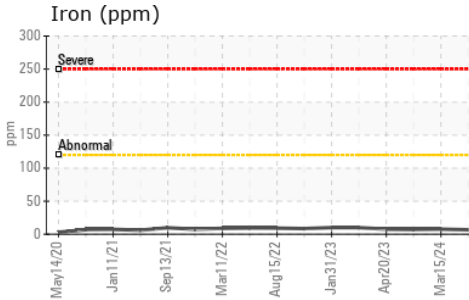
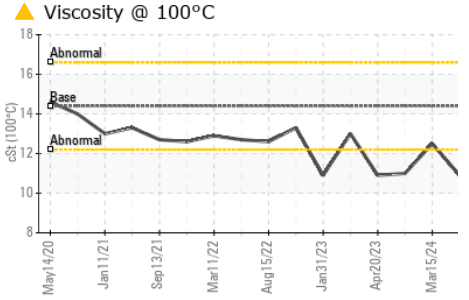
## VISUAL

Parameter	Method	Limit/Base	Current	History1	History2	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG	

## FLUID PROPERTIES

Parameter	Method	Limit/Base	Current	History1	History2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 10.9	12.5	▲ 11.0

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113221  
**Lab Number** : 02643182  
**Unique Number** : 5800721  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

**GFL Environmental - 246 - Windsor**  
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 Windsor, ON  
 CA N8W 5H8  
 Contact: Dave Varga  
 dvarga@gflenv.com  
 T: (519)944-8009  
 F:

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.