



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**833055**  
Component  
**Diesel Engine**  
Fluid  
**NOT GIVEN (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0120088</b>	GFL0104523	GFL0090554
Sample Date		Client Info		<b>07 May 2024</b>	19 Dec 2023	21 Sep 2023
Machine Age	kms	Client Info		<b>15685</b>	10674	5995
Oil Age	kms	Client Info		<b>10674</b>	0	0
Filter Age	kms	Client Info		<b>10674</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>80	<b>11</b>	8	35
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>2</b>	2	3
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	2
Copper	ppm	ASTM D5185(m)	>150	<b>2</b>	<1	15
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

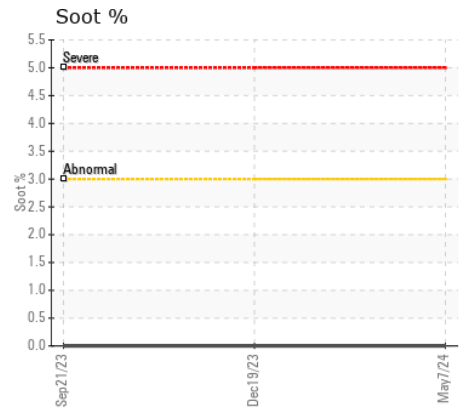
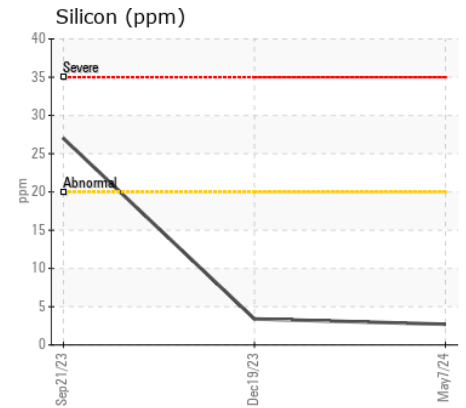
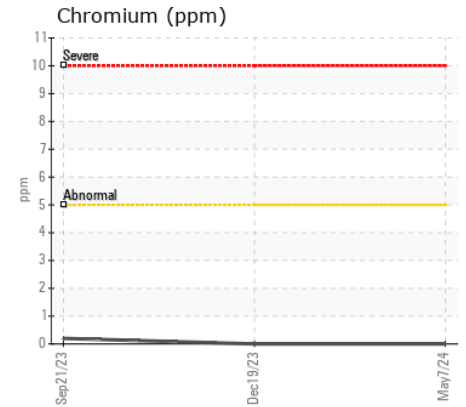
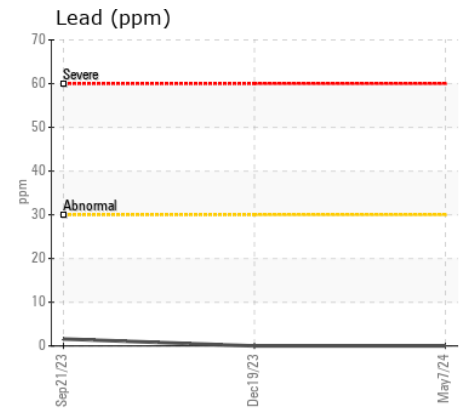
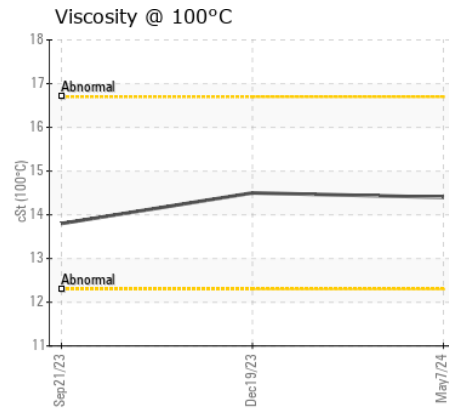
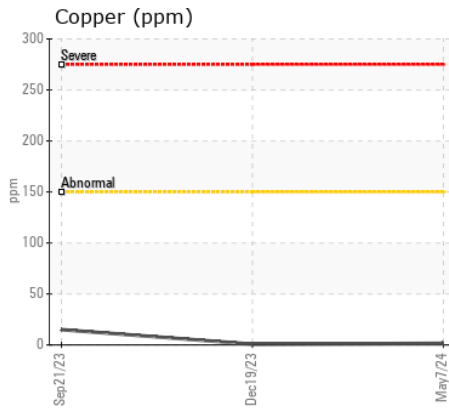
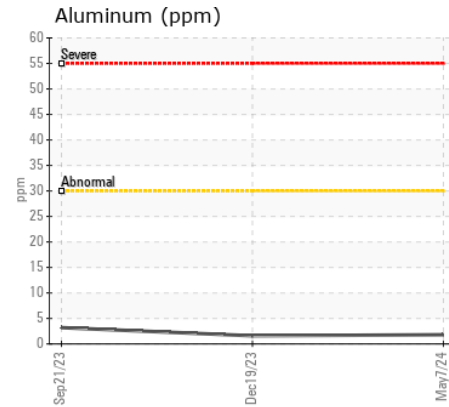
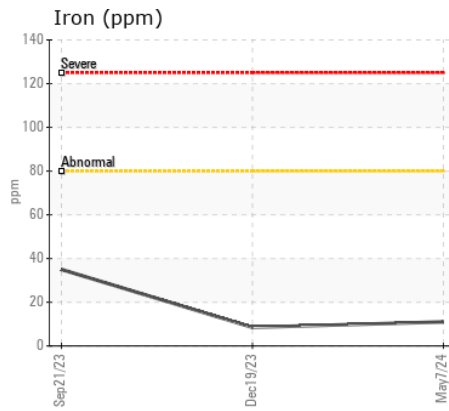
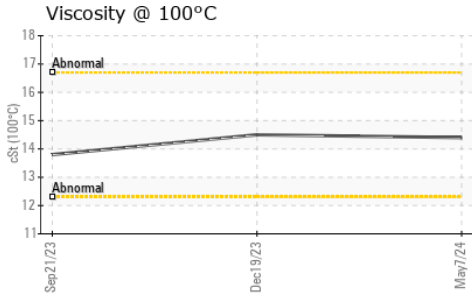
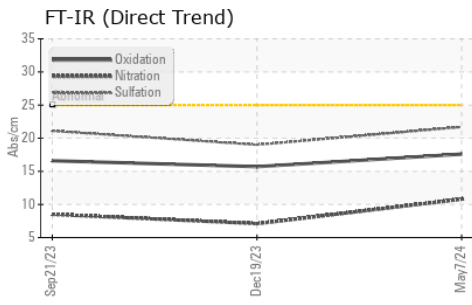
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	3	27
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.8</b>	7.1	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.7</b>	19.0	21.1
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>7</b>	6	3
Boron	ppm	ASTM D5185(m)		<b>7</b>	29	12
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185(m)		<b>50</b>	48	82
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	9
Magnesium	ppm	ASTM D5185(m)		<b>561</b>	576	580
Calcium	ppm	ASTM D5185(m)		<b>1541</b>	1496	1136
Phosphorus	ppm	ASTM D5185(m)		<b>637</b>	768	634
Zinc	ppm	ASTM D5185(m)		<b>892</b>	883	754
Sulfur	ppm	ASTM D5185(m)		<b>1974</b>	2162	2110
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.6</b>	15.7	16.6
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.4</b>	14.5	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0120088  
**Lab Number** : 02634279  
**Unique Number** : 5775432  
**Test Package** : MOB 1

**GFL Environmental - 225 - COT(D2)**  
 20 Brydon Drive  
 Etobicoke, ON  
 CA M9W 5R6  
 Contact: Kim McCall  
 kmccall@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.

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F: