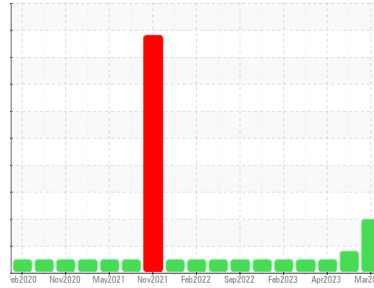




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**8324**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Usure de piston.

### Contamination

Quantité modérée de carburant dans l'huile. Les tests confirment la présence de carburant dans l'huile.

### Fluid Condition

Il y a du carburant dans l'huile, ce qui réduit la viscosité. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0107522</b>	GFL0087611	GFL0079508
Sample Date	Client Info		<b>18 Mar 2024</b>	04 Oct 2023	17 Apr 2023
Machine Age	hrs	Client Info	<b>18871</b>	333317	328818
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >75	<b>51</b>	31	14
Chromium	ppm	ASTM D5185(m) >5	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >15	<b>▲ 15</b>	▲ 25	4
Lead	ppm	ASTM D5185(m) >25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m) >100	<b>2</b>	1	<1
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<1
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) 0	<b>2</b>	2	2
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 60	<b>58</b>	61	59
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 1010	<b>927</b>	979	973
Calcium	ppm	ASTM D5185(m) 1070	<b>1034</b>	1081	1095
Phosphorus	ppm	ASTM D5185(m) 1150	<b>994</b>	1035	1084
Zinc	ppm	ASTM D5185(m) 1270	<b>1154</b>	1222	1191
Sulfur	ppm	ASTM D5185(m) 2060	<b>2405</b>	2519	2609
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

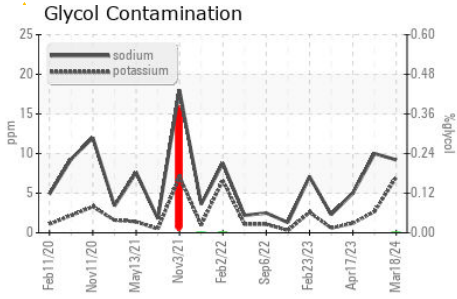
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>8</b>	6	4
Sodium	ppm	ASTM D5185(m)	<b>9</b>	10	5
Potassium	ppm	ASTM D5185(m) >20	<b>7</b>	3	1
Fuel	%	ASTM D7593* >3.0	<b>▲ 4.1</b>	<1.0	<1.0
Glycol	%	ASTM D7922*	<b>0.0</b>	NEG	NEG

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	<b>1</b>	1.3	0.2
Nitration	Abs/cm	ASTM D7624* >20	<b>11.9</b>	9.0	7.2
Sulfation	Abs./1mm	ASTM D7415* >30	<b>22.1</b>	21.3	19.1



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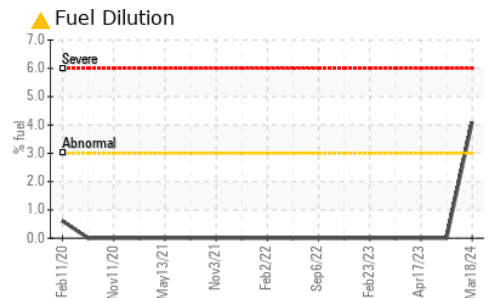
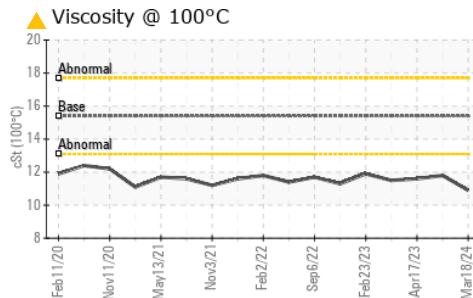
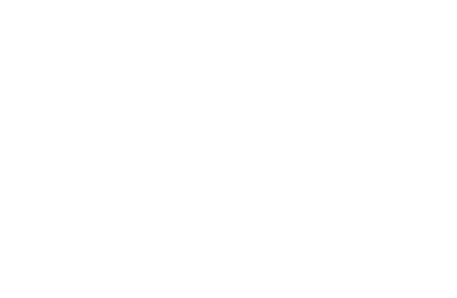
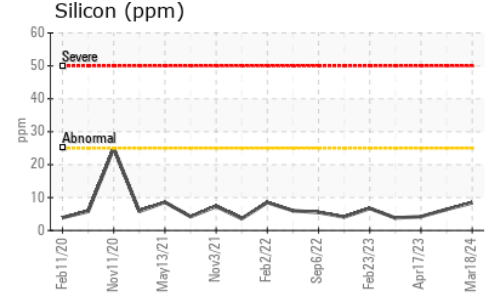
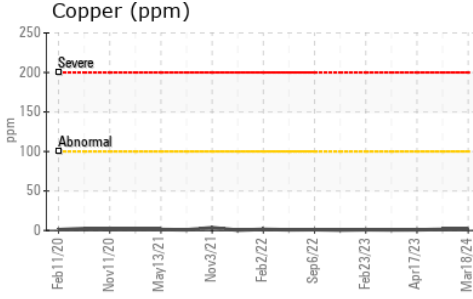
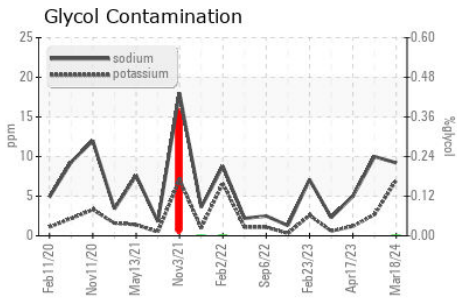
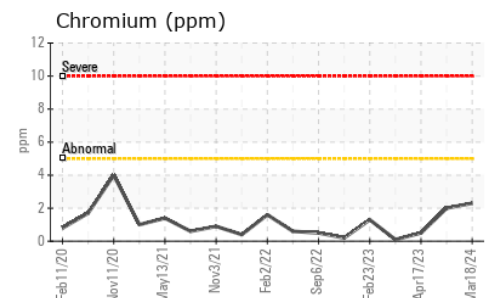
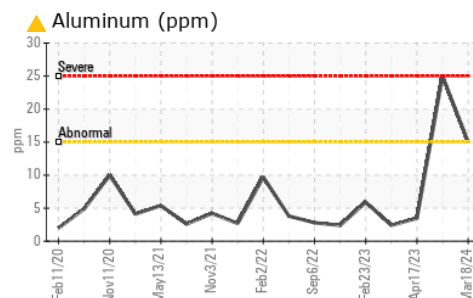
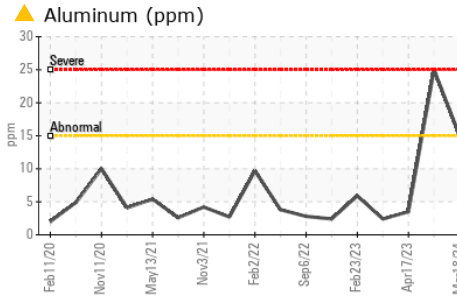
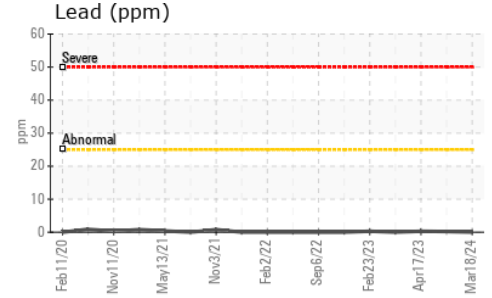
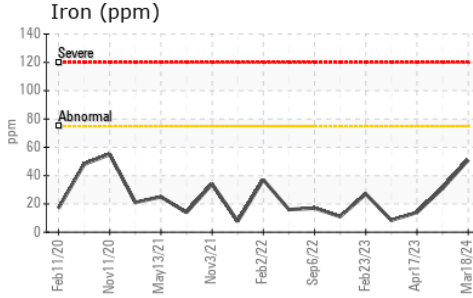
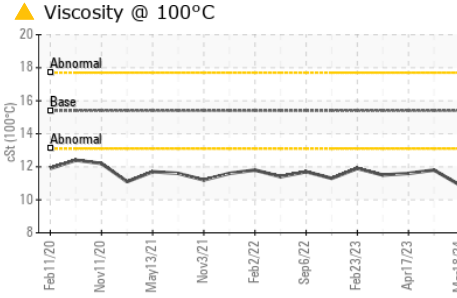


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	18.2	15.0

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 10.9	11.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107522  
**Lab Number** : 02625166  
**Unique Number** : 5750285  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, Glycol, PercentFuel )

**GFL Environmental - 747 - GMA - Solid Waste**  
 4 Chemin du Tremblay,  
 Boucherville, QC  
 CA J4B 6Z5  
 Contact: Steve Voyer  
 svoyer@matrec.ca

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: