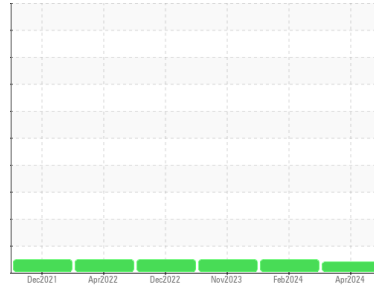




# OIL ANALYSIS REPORT

## Sample Rating Trend



## VISCOSITY



Machine Id

**811037**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 15W40 (30 LTR)**

### DIAGNOSIS

#### Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

#### Wear

Les taux d'usure de tous les composants sont normaux.

#### Contamination

Les tests n'indiquent aucune trace de carburant dans l'huile. Il n'y a aucun indice de contamination dans l'huile.

#### Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 30; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0107548</b>	GFL0107648	GFL0096471
Sample Date	Client Info		<b>22 Apr 2024</b>	28 Feb 2024	08 Nov 2023
Machine Age	kms	Client Info	<b>120906</b>	111689	96680
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	0.0	NEG

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>17</b>	28	63
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>4</b>	8	17
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>30	<b>1</b>	2	4
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<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)	0	<b>&lt;1</b>	3	1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>62</b>	62	64
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1021</b>	1010	1027
Calcium	ppm	ASTM D5185(m)	1070	<b>1093</b>	1133	1175
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1023</b>	1016	1027
Zinc	ppm	ASTM D5185(m)	1270	<b>1216</b>	1207	1263
Sulfur	ppm	ASTM D5185(m)	2060	<b>2540</b>	2469	2269
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

### CONTAMINANTS

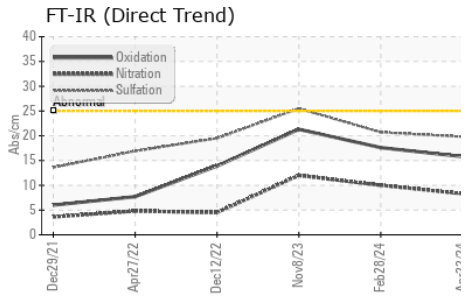
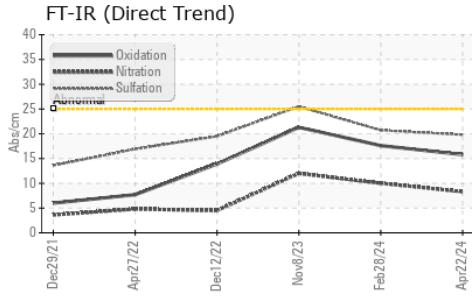
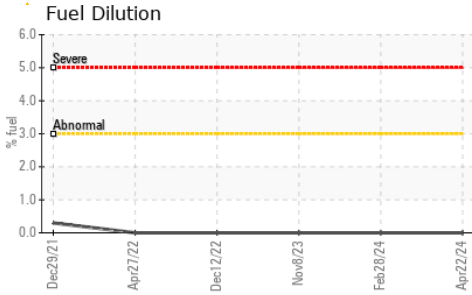
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>30	<b>2</b>	3	6
Sodium	ppm	ASTM D5185(m)		<b>1</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	8	31
Fuel	%	ASTM D7593*	>3.0	<b>0.0</b>	<1.0	<1.0

### INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0.5	1
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.3</b>	10.0	12.0
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>19.8</b>	20.7	25.5



# OIL ANALYSIS REPORT

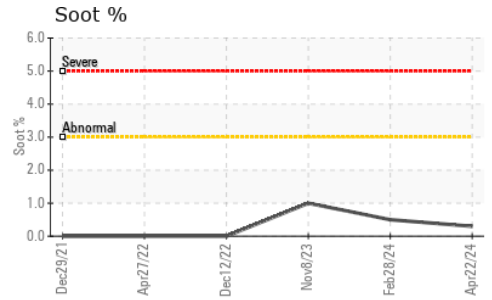
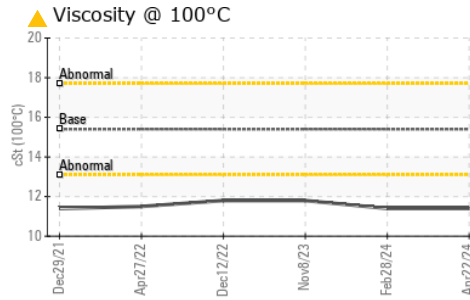
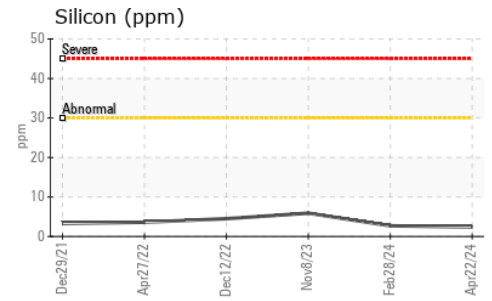
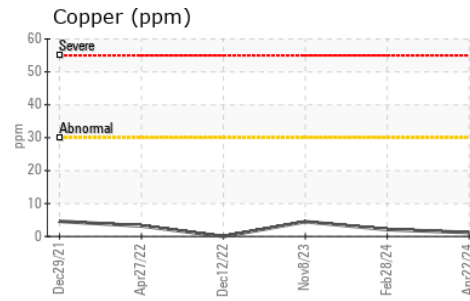
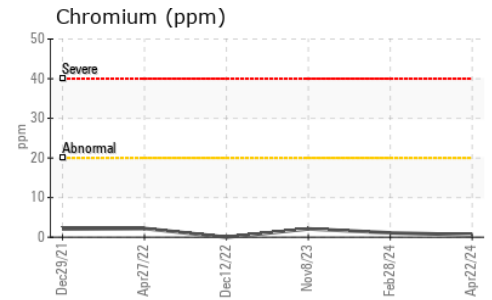
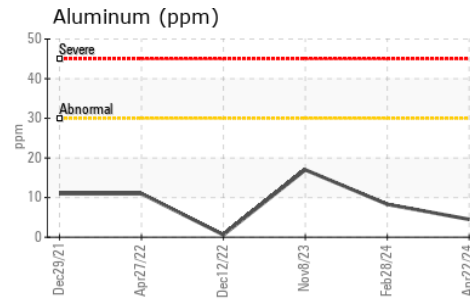
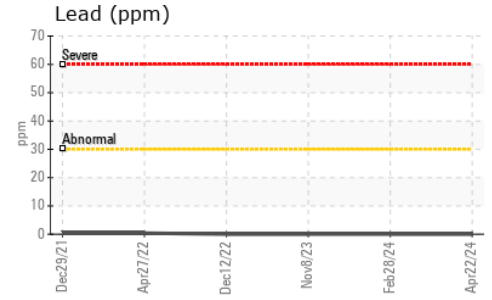
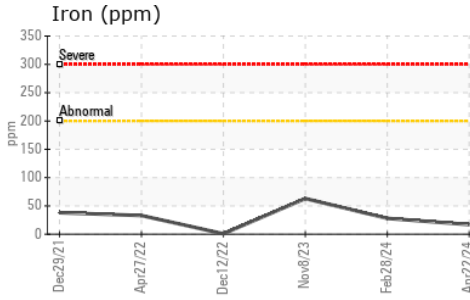


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/1mm	ASTM D7414*	>25	<b>15.8</b>	17.6	21.3

VISUAL		method	limit/base	current	history1	history2
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)	15.4	<b>▲ 11.4</b>	11.4	11.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 747 - GMA - Solid Waste**  
**Sample No.** : GFL0107548 **Received** : 06 May 2024 **4 Chemin du Tremblay,**  
**Lab Number** : **02633401** **Tested** : 08 May 2024 **Boucherville, QC**  
**Unique Number** : 5774554 **Diagnosed** : 08 May 2024 - Kevin Marson **CA J4B 6Z5**  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel ) **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.