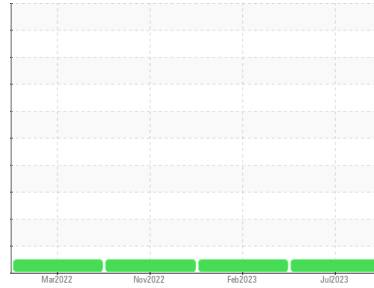




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**811040**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SAE 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

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

### Wear

Les taux de métaux sont typiques pour la période de rodage d'un nouveau composant.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

### Fluid Condition

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>GFL0084414</b>	GFL0073395	GFL0062076
Sample Date	Client Info		<b>03 Jul 2023</b>	24 Feb 2023	24 Nov 2022
Machine Age	kms	Client Info	<b>67788</b>	3514	3018
Oil Age	kms	Client Info	<b>0</b>	600	500
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>33</b>	20	7
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>6</b>	5	3
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>30	<b>2</b>	2	<1
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	<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)	1	<b>2</b>	6	38
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	1	<b>60</b>	62	64
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	<b>1008</b>	984	855
Calcium	ppm	ASTM D5185(m)	2942	<b>1095</b>	1134	1293
Phosphorus	ppm	ASTM D5185(m)	1102	<b>1065</b>	1092	1029
Zinc	ppm	ASTM D5185(m)	1351	<b>1214</b>	1184	1120
Sulfur	ppm	ASTM D5185(m)	3903	<b>2429</b>	2605	2645
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>4</b>	3	3
Sodium	ppm	ASTM D5185(m)		<b>2</b>	1	1
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	4	3

## INFRA-RED

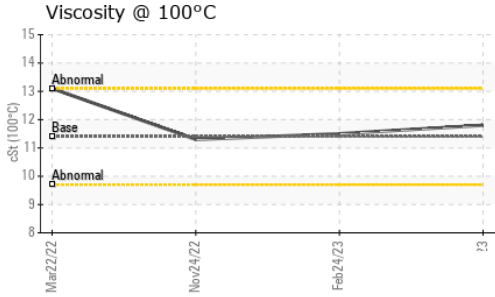
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.8</b>	0.5	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	8.4	5.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.3</b>	22.4	19.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.7</b>	15.5	13.3



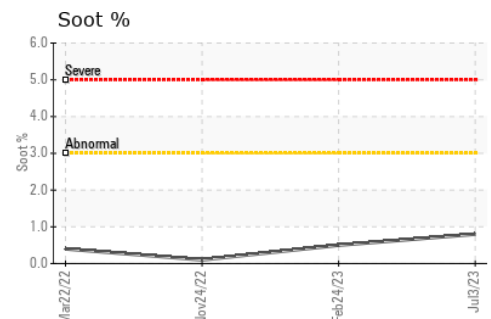
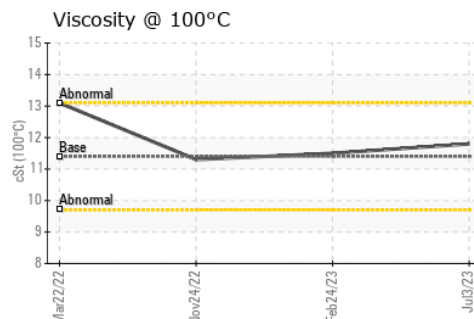
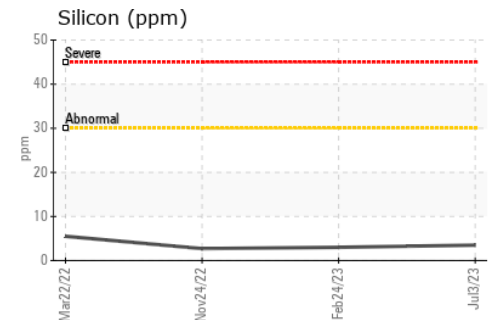
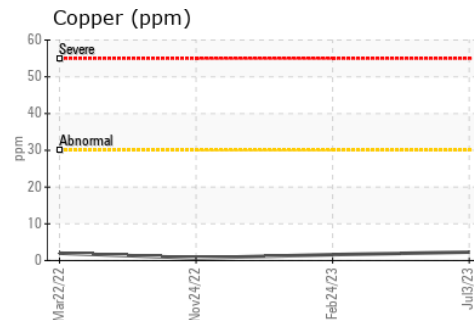
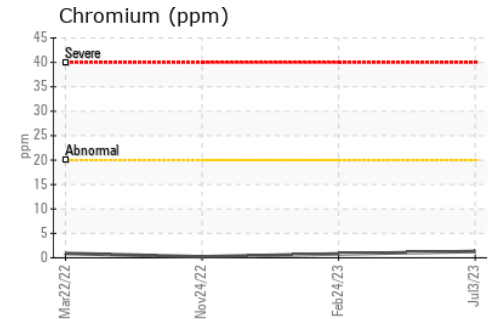
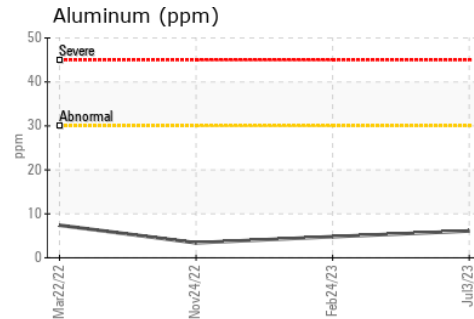
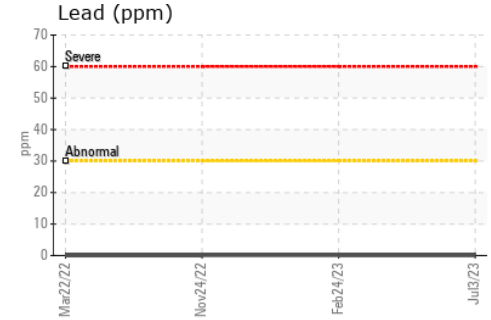
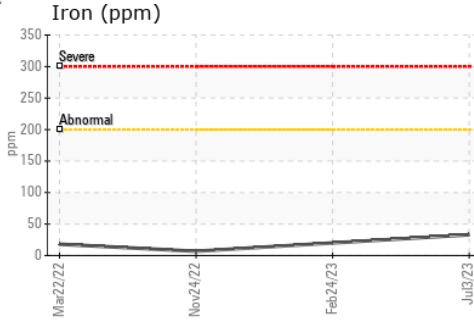
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	<b>11.8</b>	11.5

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste  
**Sample No.** : GFL0084414 **Received** : 10 Jul 2023  
**Lab Number** : **02568701** **Diagnosed** : 10 Jul 2023  
**Unique Number** : 5605747 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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