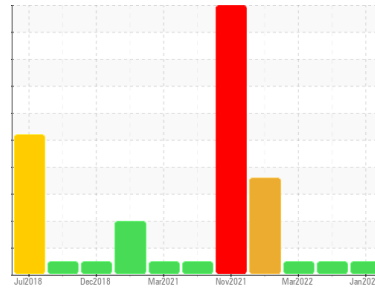




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**201063**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0099557</b>	GFL0070717	GFL0049055
Sample Date	Client Info	<b>22 Jan 2024</b>	21 Feb 2023	23 Mar 2022
Machine Age	hrs	<b>7546</b>	6735	5947
Oil Age	hrs	<b>550</b>	788	231
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >80	<b>38</b>	59	16
Chromium	ppm ASTM D5185(m) >5	<b>&lt;1</b>	2	<1
Nickel	ppm ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	<1	0
Silver	ppm ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >30	<b>11</b>	17	4
Lead	ppm ASTM D5185(m) >30	<b>&lt;1</b>	0	0
Copper	ppm ASTM D5185(m) >150	<b>1</b>	1	<1
Tin	ppm ASTM D5185(m) >5	<b>0</b>	<1	<1
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) 1	<b>2</b>	4	7
Barium	ppm ASTM D5185(m) 1	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 60	<b>58</b>	61	58
Manganese	ppm ASTM D5185(m) 1	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 1010	<b>910</b>	961	990
Calcium	ppm ASTM D5185(m) 1070	<b>1086</b>	1102	1024
Phosphorus	ppm ASTM D5185(m) 1150	<b>980</b>	1089	1039
Zinc	ppm ASTM D5185(m) 1270	<b>1178</b>	1211	1200
Sulfur	ppm ASTM D5185(m) 2060	<b>2584</b>	2520	2531
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

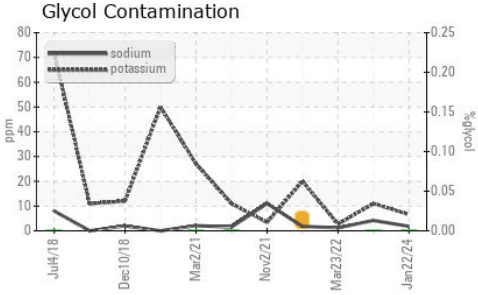
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>9</b>	8	5
Sodium	ppm ASTM D5185(m)	<b>2</b>	4	1
Potassium	ppm ASTM D5185(m) >20	<b>7</b>	11	3
Glycol	% ASTM D7922*	<b>0.0</b>	0.0	NEG

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>1.2</b>	0.8	0.3
Nitration	Abs/cm ASTM D7624* >20	<b>10.1</b>	8.2	7.4
Sulfation	Abs/.1mm ASTM D7415* >30	<b>21.5</b>	20.4	20.5



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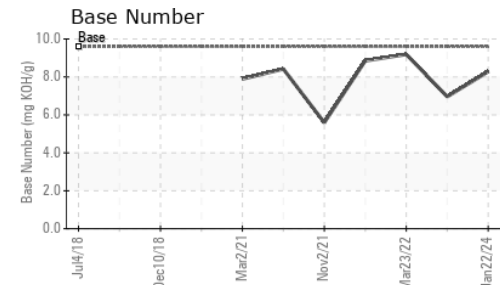
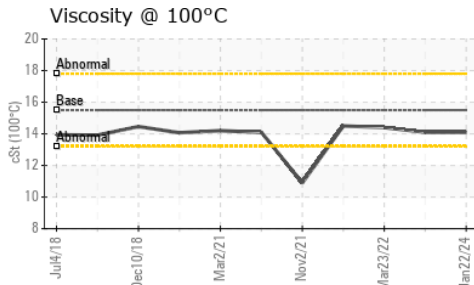
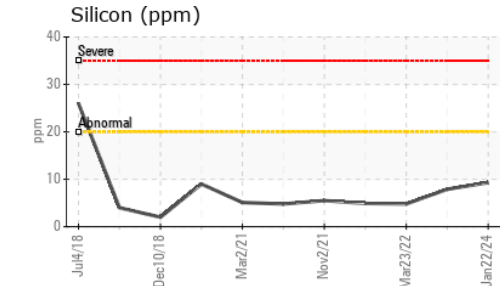
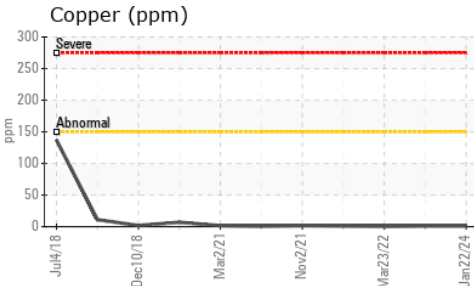
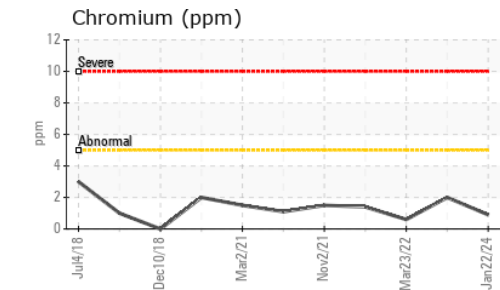
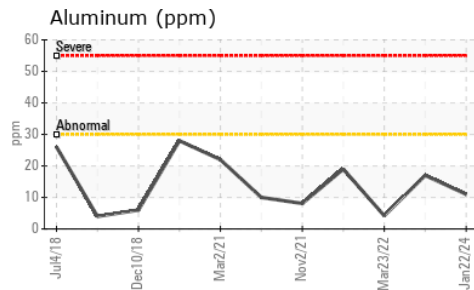
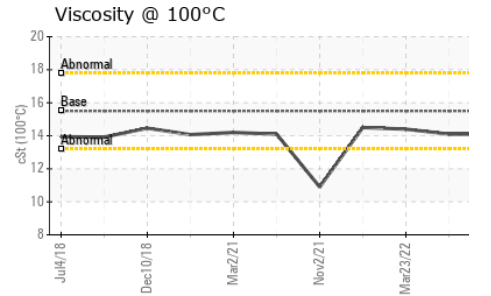
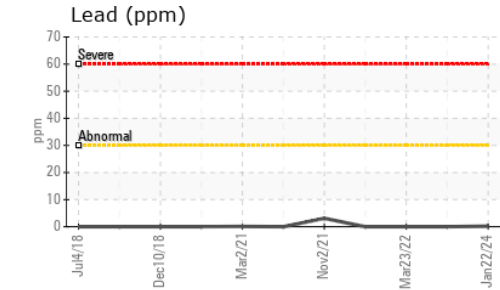
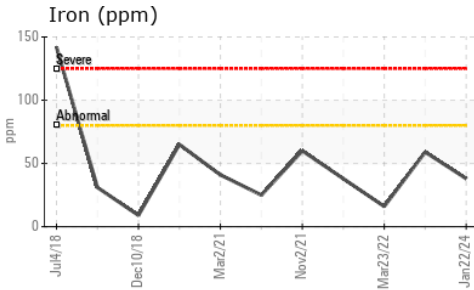
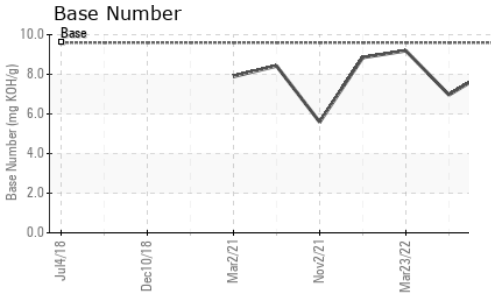


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>17.1</b>	13.0	14.8
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>8.28</b>	6.96	9.19

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)	15.5	<b>14.1</b>	14.1	14.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County  
**Sample No.** : GFL0099557 **Received** : 31 Jan 2024  
**Lab Number** : 02612327 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 5721422 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: Glycol )  
 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.