



# OIL ANALYSIS REPORT

Sample Rating Trend

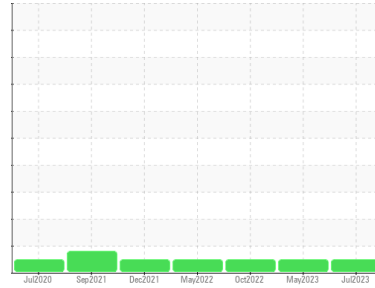
**NORMAL**



Machine Id  
**OR348**

Component  
**Rear Differential**  
Fluid

**PETRO CANADA DURATRAN (--- 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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0087390</b>	GFL0056462	GFL0056452
Sample Date	Client Info		<b>18 Jul 2023</b>	29 May 2023	28 Oct 2022
Machine Age	hrs	Client Info	<b>22210</b>	21984	21186
Oil Age	hrs	Client Info	<b>2224</b>	2098	1331
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	<b>19</b>	20	11
Chromium	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	<b>3</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>1</b>	<1	1
Lead	ppm	ASTM D5185(m) >25	<b>8</b>	7	4
Copper	ppm	ASTM D5185(m) >100	<b>4</b>	3	2
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m) >5	<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) 110	<b>76</b>	84	88
Barium	ppm	ASTM D5185(m) 0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0.0	<b>3</b>	3	3
Manganese	ppm	ASTM D5185(m) 1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 13	<b>46</b>	48	49
Calcium	ppm	ASTM D5185(m) 3610	<b>2814</b>	3222	3223
Phosphorus	ppm	ASTM D5185(m) 1192	<b>1071</b>	1131	1103
Zinc	ppm	ASTM D5185(m) 1455	<b>1194</b>	1258	1245
Sulfur	ppm	ASTM D5185(m) 2641	<b>2854</b>	2997	2837
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

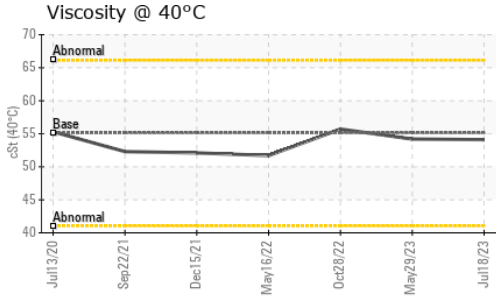
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	<b>8</b>	8	7
Sodium	ppm	ASTM D5185(m)	<b>3</b>	3	2
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0

## VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG



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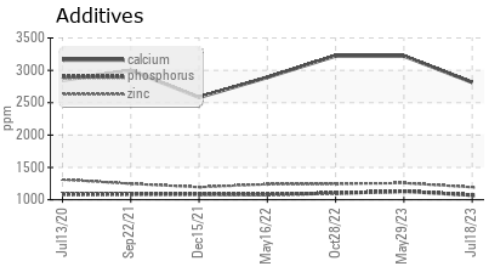
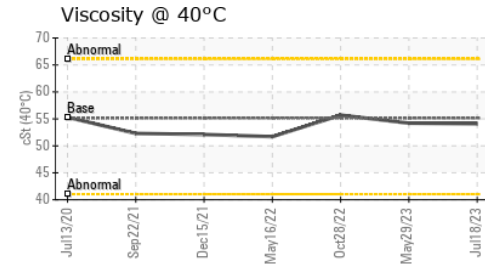
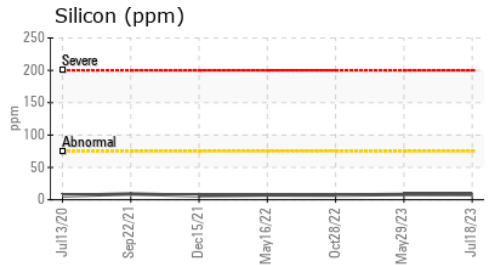
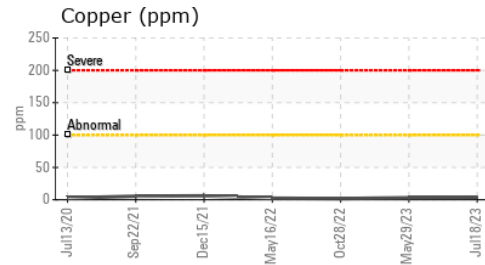
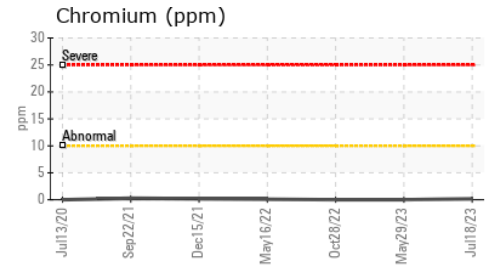
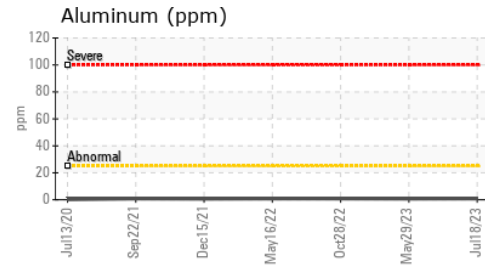
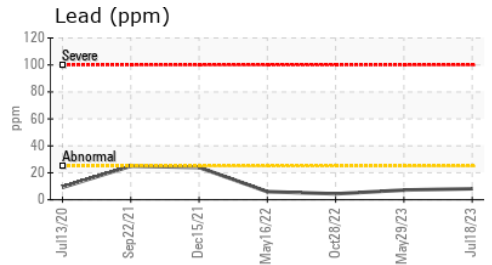
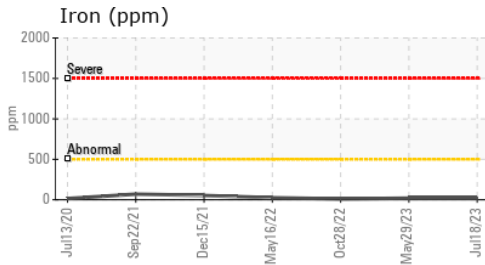


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	<b>54.1</b>	54.2	55.7

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill  
**Sample No.** : GFL0087390 **Received** : 25 Jul 2023 17125 Lafleche Road,  
**Lab Number** : 02572021 **Diagnosed** : 25 Jul 2023 Moose Creek, ON  
**Unique Number** : 5617072 **Diagnostician** : Wes Davis CA K0C 1W0  
**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.