



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**OR962**

Component  
**Front Differential**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 30 (32 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113332</b>	GFL0087374	GFL0064917
Sample Date		Client Info		<b>17 Apr 2024</b>	19 Jan 2024	25 Apr 2023
Machine Age	hrs	Client Info		<b>14420</b>	13733	11728
Oil Age	hrs	Client Info		<b>12415</b>	1348	762
Filter Age	hrs	Client Info		<b>12415</b>	1348	762
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>61</b>	48	52
Chromium	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185(m)	>13	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>103	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

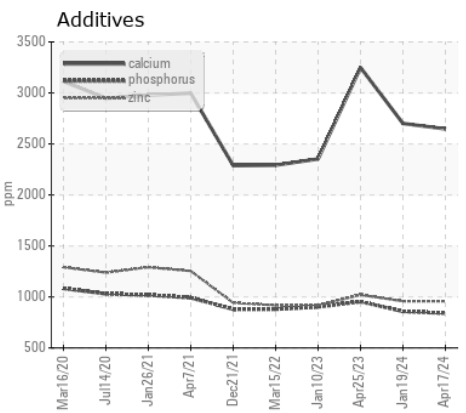
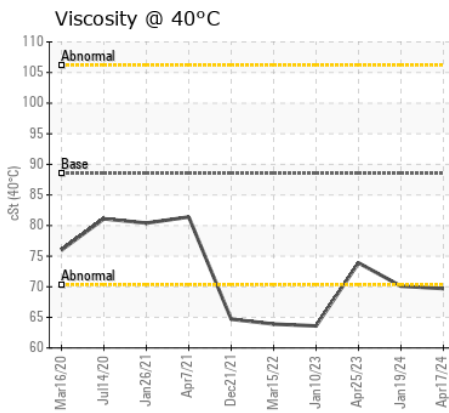
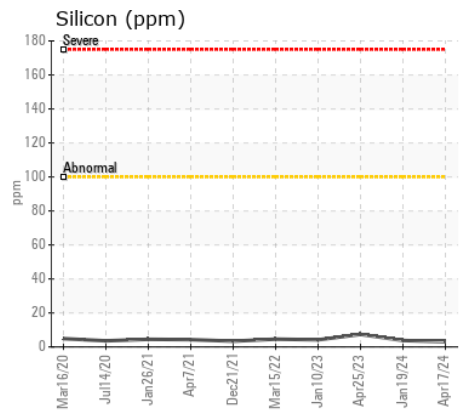
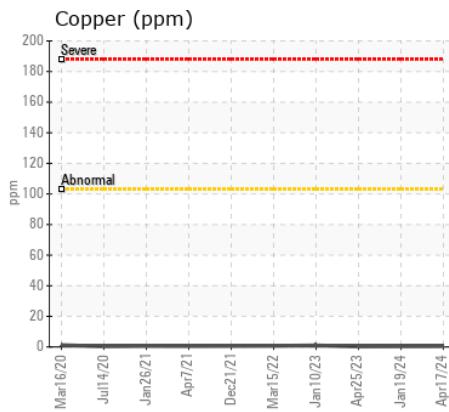
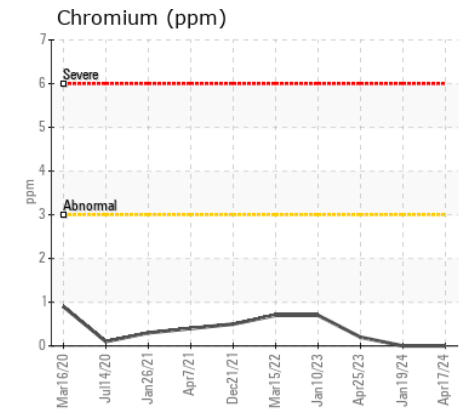
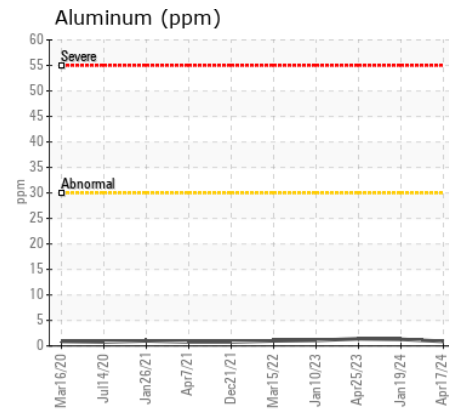
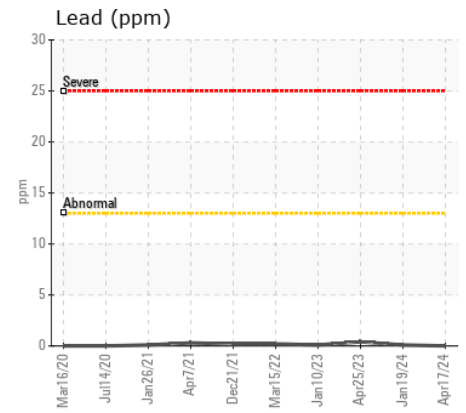
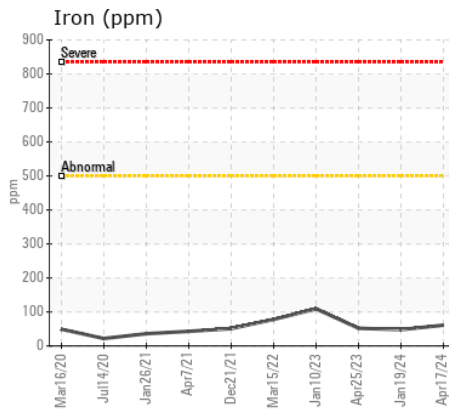
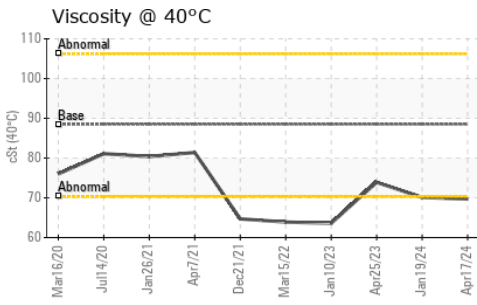
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	<b>3</b>	4	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>VLITE</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

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)	2	<b>27</b>	28	18
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>5</b>	5	5
Manganese	ppm	ASTM D5185(m)	9	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1	<b>66</b>	65	57
Calcium	ppm	ASTM D5185(m)	3131	<b>2647</b>	2701	3249
Phosphorus	ppm	ASTM D5185(m)	1194	<b>840</b>	858	953
Zinc	ppm	ASTM D5185(m)	1281	<b>958</b>	958	1021
Sulfur	ppm	ASTM D5185(m)	3811	<b>2910</b>	3404	3067
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	<b>69.7</b>	70.1	73.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113332  
**Lab Number** : 02631031  
**Unique Number** : 5772184  
**Test Package** : MOB 1  
**Received** : 23 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 23 Apr 2024 - Wes Davis

**GFL Environmental - 720 - Lafleche - Landfill**  
 17125 Lafleche Road,  
 Moose Creek, ON  
 CA K0C 1W0  
 Contact: Charles Bergeron  
 cbergeron@gflenv.com  
 T: (613)538-4853  
 F:

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.