



Machine Id  
**Or1984**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA DURATRAN (115 LTR)**

**RECOMMENDATION**

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113406</b>	GFL0113298	---
Sample Date		Client Info		<b>01 Apr 2024</b>	20 Mar 2024	---
Machine Age	hrs	Client Info		<b>11666</b>	0	---
Oil Age	hrs	Client Info		<b>11666</b>	0	---
Filter Age	hrs	Client Info		<b>500</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>SEVERE</b>	SEVERE	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>65	<b>35</b>	34	---
Chromium	ppm	ASTM D5185(m)	>6	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185(m)	>45	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>120	<b>2</b>	3	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

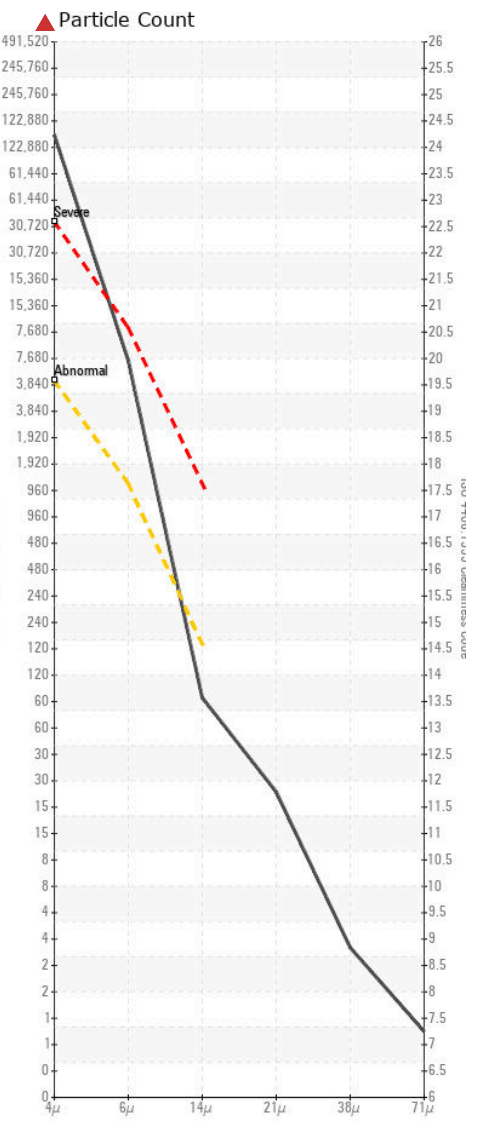
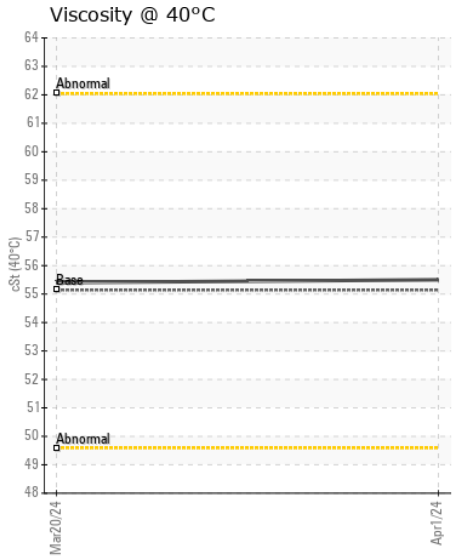
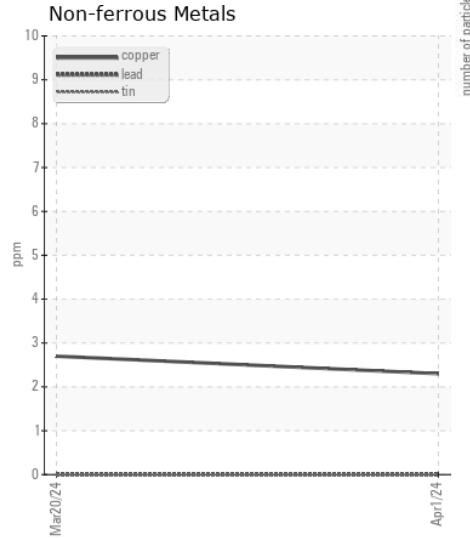
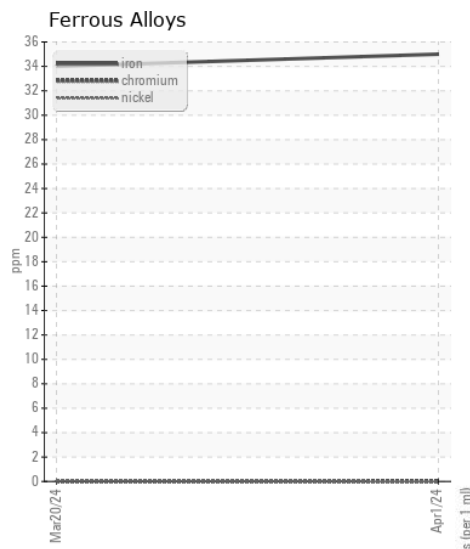
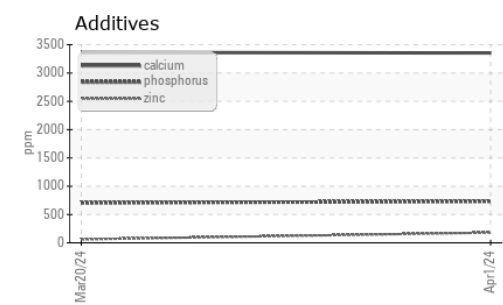
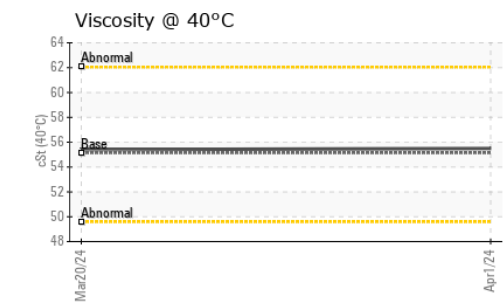
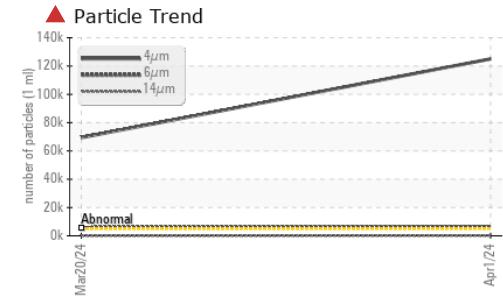
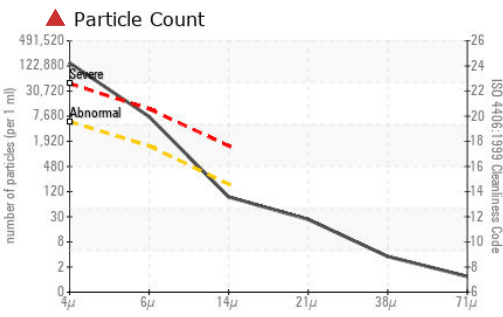
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>7</b>	7	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	<b>▲ 125014</b>	▲ 69385	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 6514</b>	▲ 5743	---
Particles >14µm		ASTM D7647	>160	<b>79</b>	13	---
Particles >21µm		ASTM D7647	>40	<b>23</b>	2	---
Particles >38µm		ASTM D7647	>10	<b>3</b>	1	---
Particles >71µm		ASTM D7647	>3	<b>1</b>	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 24/20/13</b>	▲ 23/20/11	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	---

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	---
Boron	ppm	ASTM D5185(m)	110	<b>98</b>	● 105	---
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)	13	<b>15</b>	12	---
Calcium	ppm	ASTM D5185(m)	3610	<b>3354</b>	● 3364	---
Phosphorus	ppm	ASTM D5185(m)	1192	<b>732</b>	705	---
Zinc	ppm	ASTM D5185(m)	1455	<b>180</b>	● 61	---
Sulfur	ppm	ASTM D5185(m)	2641	<b>2639</b>	● 2692	---
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	<b>55.5</b>	▲ 55.4	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113406 **Received** : 03 Apr 2024  
**Lab Number** : 02626465 **Tested** : 04 Apr 2024  
**Unique Number** : 5759597 **Diagnosed** : 05 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

**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.