



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



Machine Id  
**OR564**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 46 (110 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113418</b>	GFL0092215	GFL0087402
Sample Date		Client Info		<b>25 Apr 2024</b>	09 Feb 2024	22 Aug 2023
Machine Age	hrs	Client Info		<b>21261</b>	20550	18697
Oil Age	hrs	Client Info		<b>5000</b>	19711	2552
Filter Age	hrs	Client Info		<b>5000</b>	500	500
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>71	<b>5</b>	4	4
Chromium	ppm	ASTM D5185(m)	>11	<b>8</b>	7	6
Nickel	ppm	ASTM D5185(m)	>6	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>11	<b>1</b>	1	<1
Lead	ppm	ASTM D5185(m)	>13	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>21	<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**

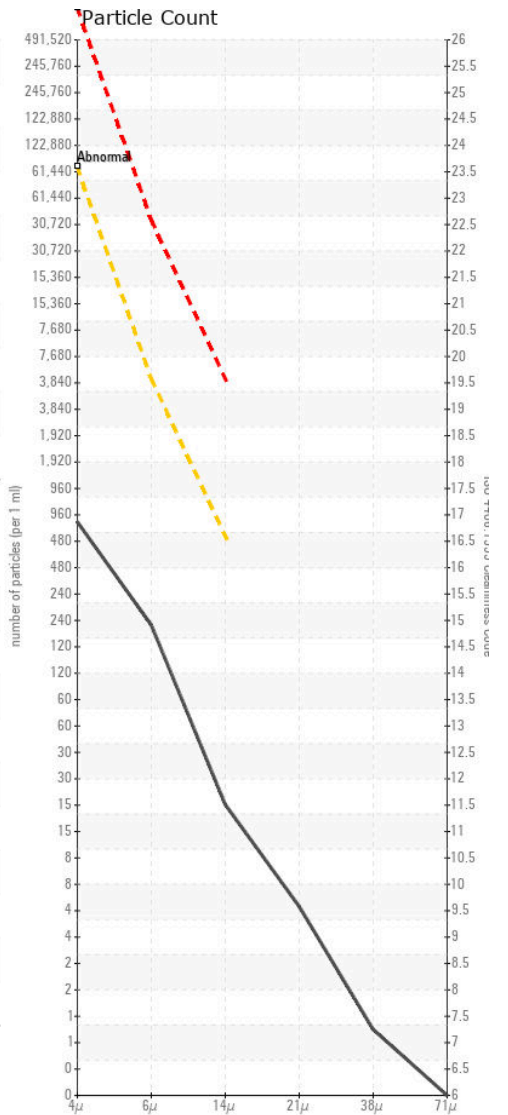
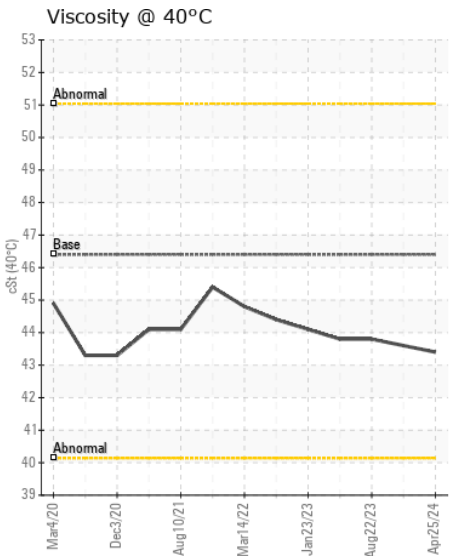
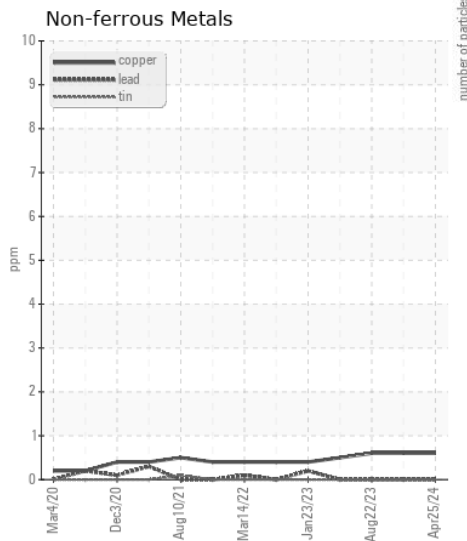
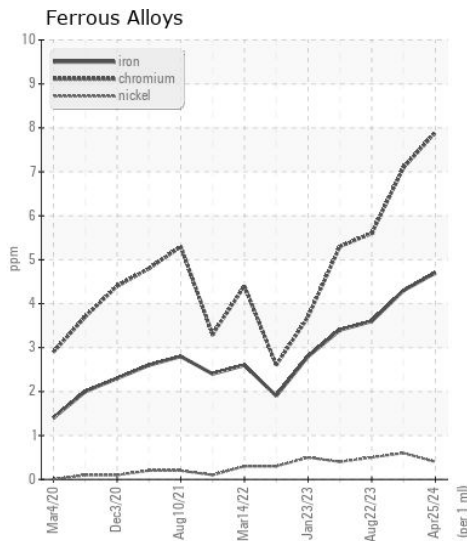
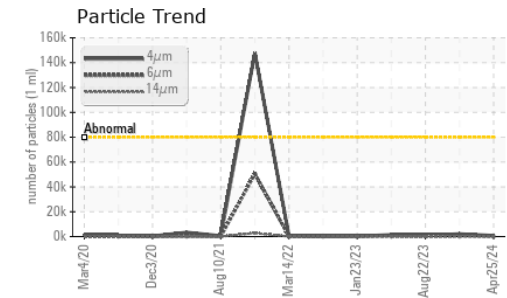
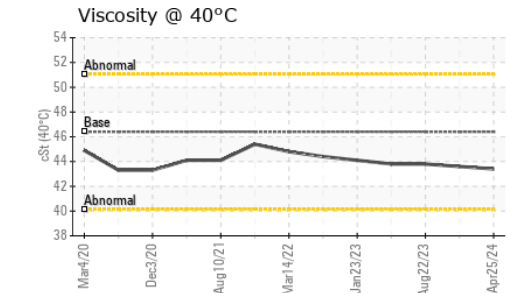
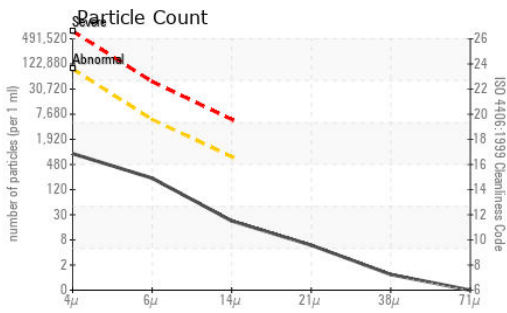
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>24	<b>&lt;1</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>767</b>	2114	1008
Particles >6µm		ASTM D7647	>5000	<b>199</b>	789	368
Particles >14µm		ASTM D7647	>640	<b>19</b>	68	44
Particles >21µm		ASTM D7647	>160	<b>5</b>	15	14
Particles >38µm		ASTM D7647	>40	<b>1</b>	1	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>17/15/11</b>	18/17/13	17/16/13
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*	>0.075	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>21	<b>4</b>	3	3
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>4</b>	5	4
Calcium	ppm	ASTM D5185(m)	50	<b>117</b>	118	117
Phosphorus	ppm	ASTM D5185(m)	330	<b>608</b>	618	641
Zinc	ppm	ASTM D5185(m)	430	<b>775</b>	774	766
Sulfur	ppm	ASTM D5185(m)	760	<b>1391</b>	1513	1398
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	<b>43.4</b>	43.6	43.8



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113418  
**Lab Number** : 02632813  
**Unique Number** : 5773966  
**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.