

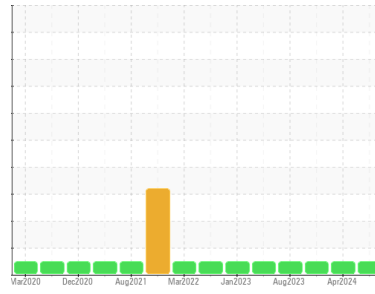


# OIL ANALYSIS REPORT



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

Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### 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>GFL0124566</b>	GFL0113418	GFL0092215
Sample Date	Client Info		<b>09 Jul 2024</b>	25 Apr 2024	09 Feb 2024
Machine Age	hrs	Client Info	<b>21803</b>	21261	20550
Oil Age	hrs	Client Info	<b>500</b>	5000	19711
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.075	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >71	<b>2</b>	5	4
Chromium	ppm	ASTM D5185(m) >11	<b>4</b>	8	7
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>&lt;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
Antimony	ppm	ASTM D5185(m)	<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) 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>2</b>	4	5
Calcium	ppm	ASTM D5185(m) 50	<b>105</b>	117	118
Phosphorus	ppm	ASTM D5185(m) 330	<b>603</b>	608	618
Zinc	ppm	ASTM D5185(m) 430	<b>784</b>	775	774
Sulfur	ppm	ASTM D5185(m) 760	<b>1413</b>	1391	1513
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

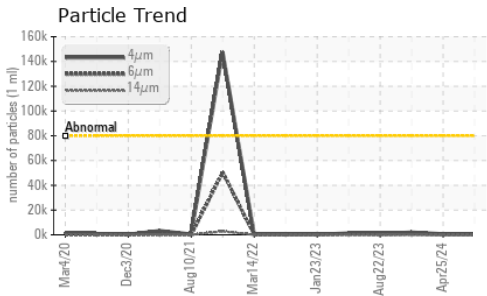
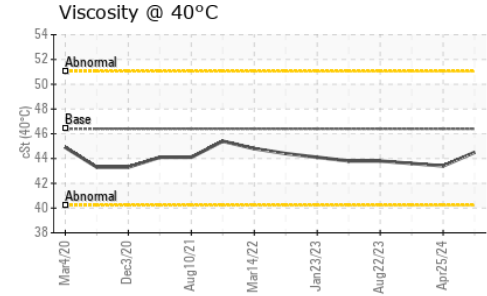
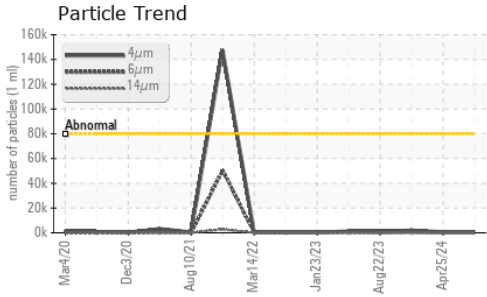
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >24	<b>&lt;1</b>	<1	2
Sodium	ppm	ASTM D5185(m) >21	<b>2</b>	4	3
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	1	<1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>80000	<b>726</b>	767	2114
Particles >6µm	ASTM D7647	>5000	<b>199</b>	199	789
Particles >14µm	ASTM D7647	>640	<b>15</b>	19	68
Particles >21µm	ASTM D7647	>160	<b>5</b>	5	15
Particles >38µm	ASTM D7647	>40	<b>1</b>	1	1
Particles >71µm	ASTM D7647	>10	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>23/19/16	<b>17/15/11</b>	17/15/11	18/17/13

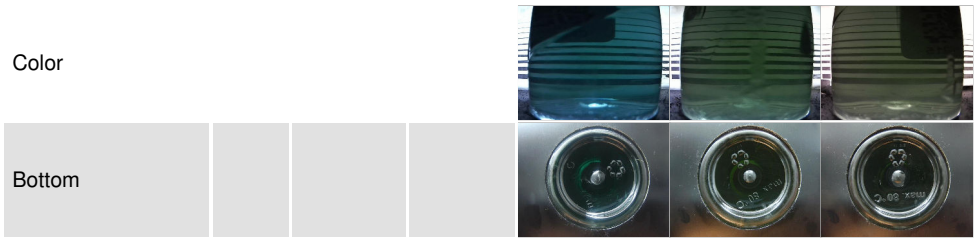
# OIL ANALYSIS REPORT



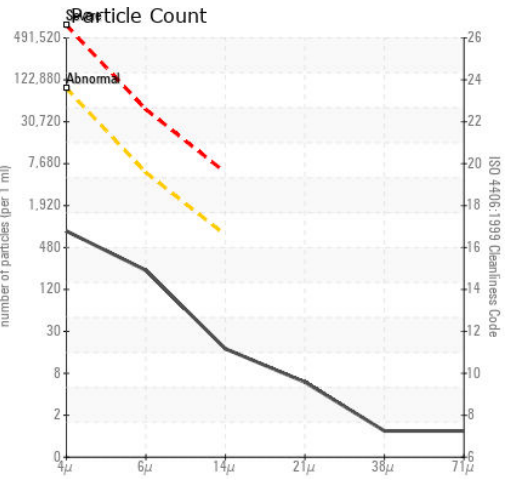
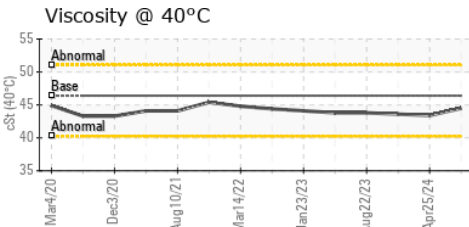
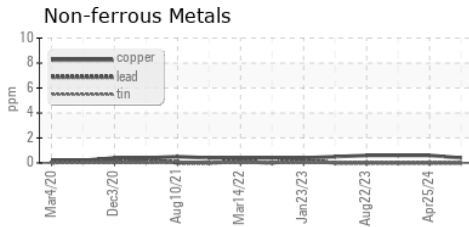
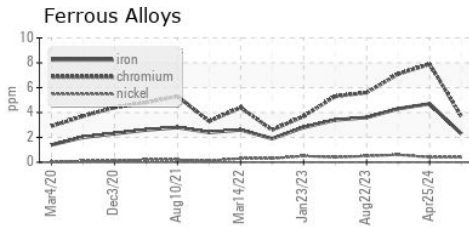
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.075	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	<b>44.5</b>	43.4	43.6

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0124566  
**Lab Number** : 02647355  
**Unique Number** : 5812907  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )  
**Received** : 11 Jul 2024  
**Tested** : 12 Jul 2024  
**Diagnosed** : 12 Jul 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.