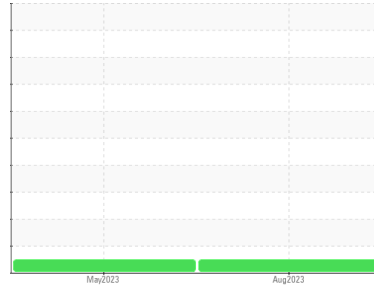




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**M183**

Component  
**Pump**

Fluid  
**PETRO CANADA HYDREX AW 46 (430 LTR)**

## 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0818437</b>	PP	---
Sample Date	Client Info		<b>23 Aug 2023</b>	23 May 2023	---
Machine Age	mths	Client Info	<b>90</b>	78	---
Oil Age	mths	Client Info	<b>83</b>	73	---
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	<b>13</b>	11	---
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>7	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185(m)	>12	<b>1</b>	2	---
Copper	ppm	ASTM D5185(m)	>30	<b>51</b>	51	---
Tin	ppm	ASTM D5185(m)	>9	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185(m)	50	<b>24</b>	22	---
Phosphorus	ppm	ASTM D5185(m)	330	<b>350</b>	355	---
Zinc	ppm	ASTM D5185(m)	430	<b>372</b>	358	---
Sulfur	ppm	ASTM D5185(m)	760	<b>759</b>	784	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>60	<b>&lt;1</b>	<1	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	1	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---

## FLUID CLEANLINESS

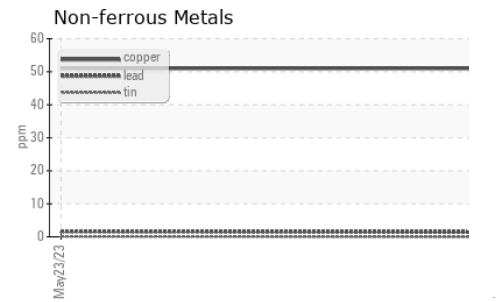
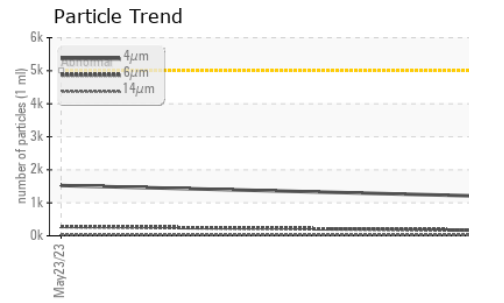
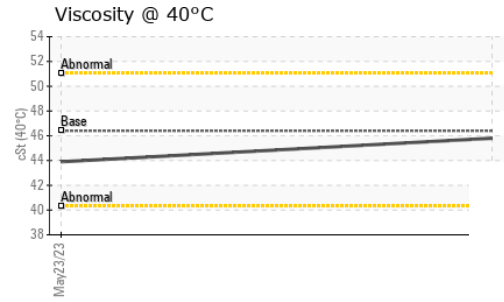
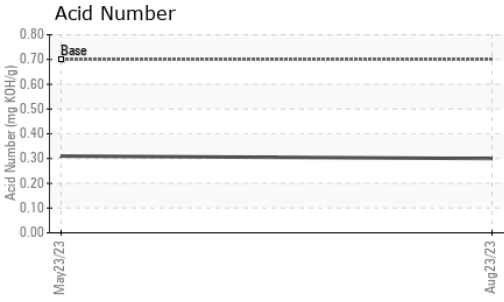
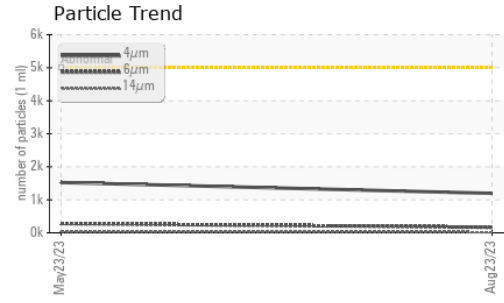
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>1195</b>	1524	---
Particles >6µm	ASTM D7647	>1300	<b>165</b>	278	---
Particles >14µm	ASTM D7647	>160	<b>17</b>	29	---
Particles >21µm	ASTM D7647	>40	<b>7</b>	11	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	1	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/15/11</b>	18/15/12	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	<b>0.30</b>	0.31	---



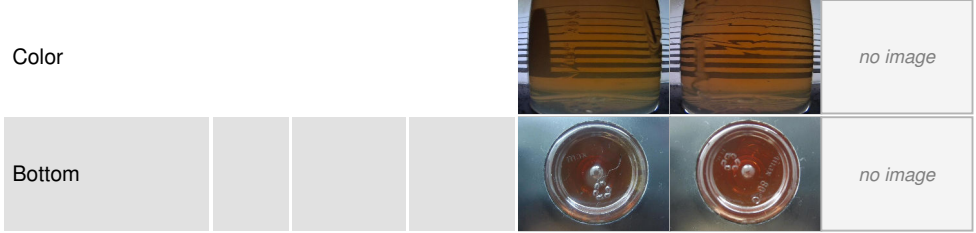
# OIL ANALYSIS REPORT



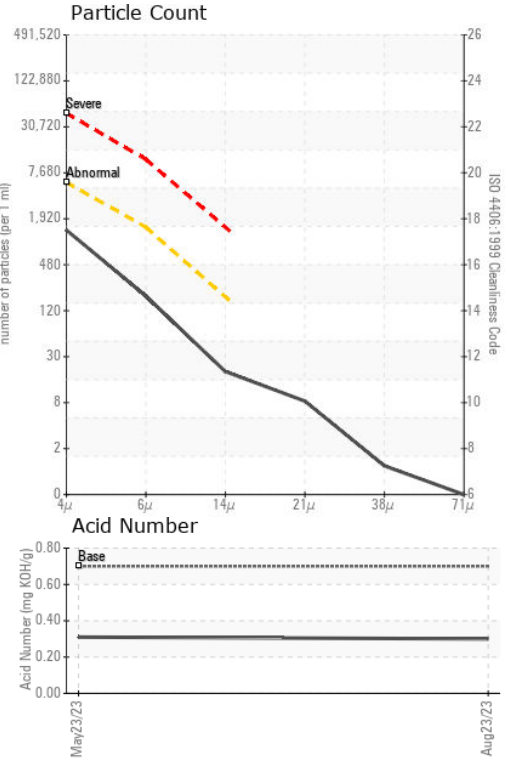
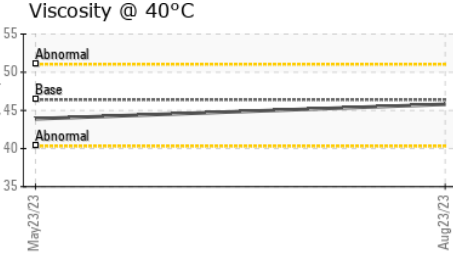
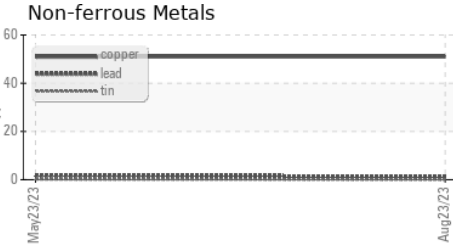
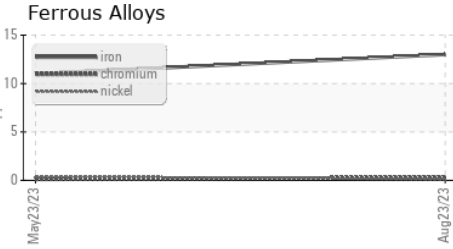
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	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	45.8	43.9

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.** : WC0818437 **Received** : 25 Aug 2023  
**Lab Number** : 02578473 **Diagnosed** : 29 Aug 2023  
**Unique Number** : 5631533 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2

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 Contact: Evan Kaun  
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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.