

Machine Id

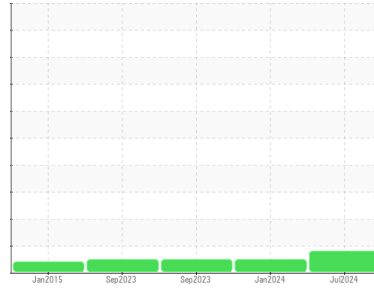
**SLIDE FRAME #1**

Component

**Hydraulic System**

Fluid

**PETRO CANADA HYDREX AW 46 (--- GAL)**



**DIAGNOSIS**

**Recommendation**

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

**Wear**

All component wear rates are normal.

**Contamination**

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

**Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info		<b>PC0058416</b>	PC0075705	PC0075642
Sample Date	Client Info		<b>09 Jul 2024</b>	13 Jan 2024	07 Sep 2023
Machine Age	hrs	Client Info	<b>19628</b>	0	52293
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed		Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

**CONTAMINATION** method limit/base current history1 history2

Water	WC Method	>0.05	<b>NEG</b>	NEG	NEG
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**WEAR METALS** method limit/base current history1 history2

Iron	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	4
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
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)	>20	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	0
Copper	ppm	ASTM D5185(m)	>20	<b>15</b>	14	1
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	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>0</b>	0	0
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>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	50	<b>45</b>	49	46
Phosphorus	ppm	ASTM D5185(m)	330	<b>308</b>	313	346
Zinc	ppm	ASTM D5185(m)	430	<b>382</b>	382	396
Sulfur	ppm	ASTM D5185(m)	760	<b>881</b>	963	781
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

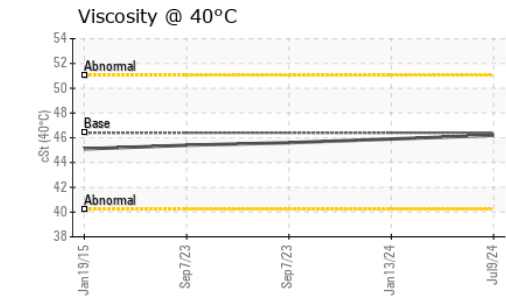
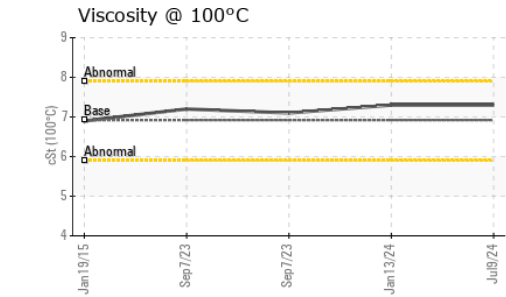
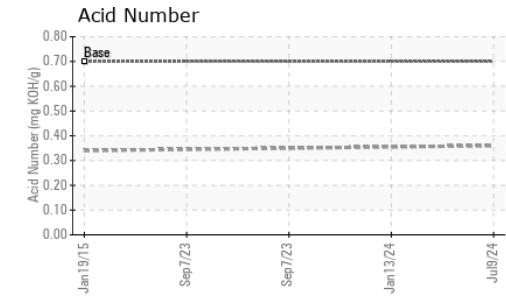
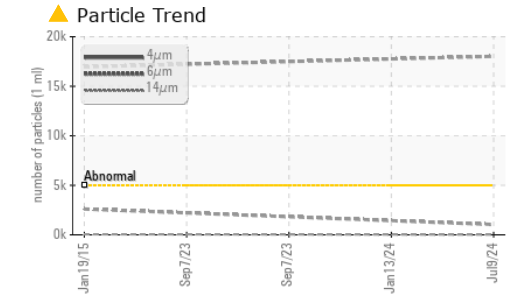
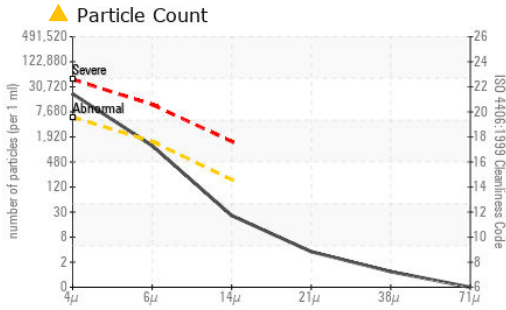
**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0

**FLUID CLEANLINESS** method limit/base current history1 history2

Particles >4µm	ASTM D7647	>5000	<b>▲ 18019</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>1039</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>22</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>3</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 21/17/12</b>	---	---

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0058416  
**Lab Number** : 02647811  
**Unique Number** : 5813363  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

ONTARIO CLEAN WATER AGENCY- SOUTH PEEL FACILITIES  
 1300 LAKESHORE RD  
 MISSISSAUGA, ON  
 CA L5E 1E9  
 Contact: Angelo Magnifico  
 amagnifico@ocwa.com  
 T: (905)274-1223  
 F: (905)274-2076

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.

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	<b>0.36</b>	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
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*	>0.05	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	<b>46.2</b>	45.9	45.6
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	<b>7.3</b>	7.3	7.1
Viscosity Index (VI)	Scale	ASTM D2270*	104	<b>119</b>	120	114

## SAMPLE IMAGES

