

Machine Id  
**PRESS #7 (S/N MP-45441)**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 68 (2000 GAL)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using Advanced Oil Monitoring (AOM) kits for this system. The AOM test package includes advanced level testing to determine the suitability of turbine and large industrial compressor oils for continued use.

**Wear**

Copper ppm levels are noted. All other component wear rates are normal.

**Contamination**

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

**Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service (unconfirmed).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC0087725</b>	PC0087728	PC0076126
Sample Date	Client Info			<b>11 Jun 2024</b>	11 Jun 2024	30 Nov 2023
Machine Age	yrs	Client Info		<b>0</b>	0	0
Oil Age	yrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<b>0</b>	0	0
Iron	ppm	ASTM D5185(m)	>20	<b>39</b>	46	39
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>20	<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	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>8</b>	8	8
Lead	ppm	ASTM D5185(m)	>20	<b>8</b>	8	9
Copper	ppm	ASTM D5185(m)	>20	<b>81</b>	72	80
Tin	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
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>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>61</b>	54	59
Calcium	ppm	ASTM D5185(m)	50	<b>102</b>	93	100
Phosphorus	ppm	ASTM D5185(m)	330	<b>568</b>	557	563
Zinc	ppm	ASTM D5185(m)	430	<b>536</b>	509	527
Sulfur	ppm	ASTM D5185(m)	760	<b>1816</b>	1786	1816
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

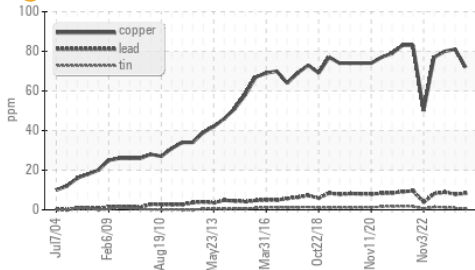
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<b>2</b>	2	3
Sodium	ppm	ASTM D5185(m)		<b>4</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	0
Water	%	ASTM D6304*	>0.05	<b>0.016</b>	---	---
ppm Water	ppm	ASTM D6304*	>500	<b>161</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>2415</b>	2667	3304
Particles >6µm		ASTM D7647	>1300	<b>422</b>	499	672
Particles >14µm		ASTM D7647	>160	<b>28</b>	31	48
Particles >21µm		ASTM D7647	>40	<b>9</b>	5	12
Particles >38µm		ASTM D7647	>10	<b>1</b>	1	1
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0

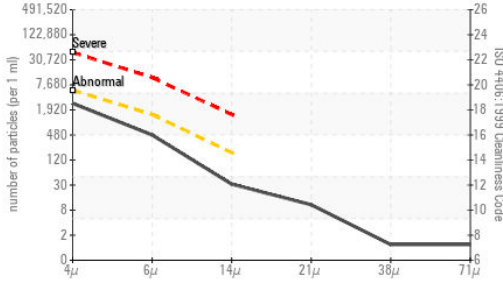
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/16/12</b>	19/16/12	19/17/13
			Contact/Location:	Dajjeet Munday - EXTWOO	

# OIL ANALYSIS REPORT

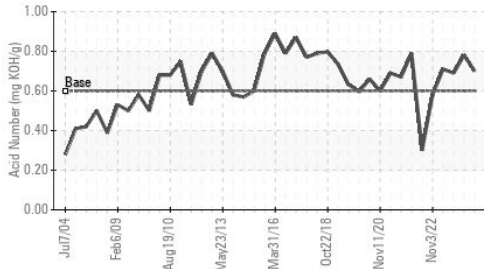
## Non-ferrous Metals



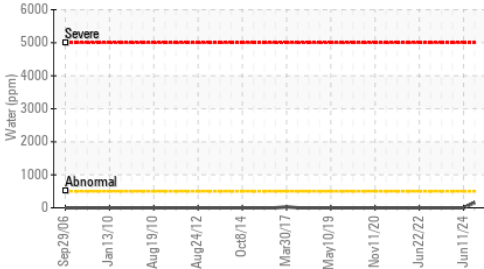
## Particle Count



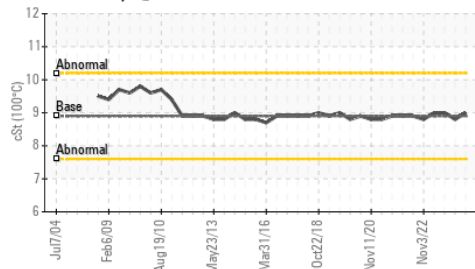
## Acid Number



## Water (KF)



## Viscosity @ 100°C



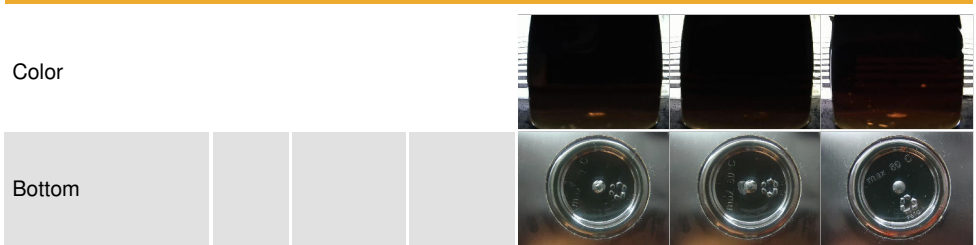
## FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Acid Number (AN) mg KOH/g	ASTM D974* 0.60	<b>0.70</b>	0.78	0.69
<b>VISUAL</b>				
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*	<b>.2%</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) 67.4	<b>65.9</b>	66.0	66.3
Visc @ 100°C	cSt ASTM D7279(m) 8.9	<b>9.0</b>	8.8	9
Viscosity Index (VI)	Scale ASTM D2270* 105	<b>111</b>	106	110

## SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0087725  
**Lab Number** : **02641148**  
**Unique Number** : 5798687  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PQ, VI )  
**Received** : 11 Jun 2024  
**Tested** : 13 Jun 2024  
**Diagnosed** : 13 Jun 2024 - Kevin Marson

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.

**EXTRUDEX ALUMINIUM**  
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