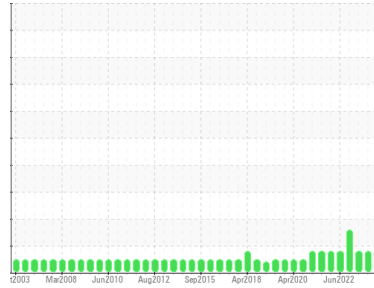




Machine Id  
**PRESS #7 (S/N MP-45441)**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 68 (2000 GAL)**



**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 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>PC0087728</b>	PC0076126	PC0076129
Sample Date	Client Info	<b>11 Jun 2024</b>	30 Nov 2023	02 Jun 2023
Machine Age	yrs	Client Info	0	0
Oil Age	yrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ATTENTION</b>	ATTENTION	ATTENTION

**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

PQ	ASTM D8184*		<b>0</b>	0	0
Iron	ppm	ASTM D5185(m) >20	<b>46</b>	39	35
Chromium	ppm	ASTM D5185(m) >20	<b>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>	<1	0
Aluminum	ppm	ASTM D5185(m) >20	<b>8</b>	8	8
Lead	ppm	ASTM D5185(m) >20	<b>8</b>	9	8
Copper	ppm	ASTM D5185(m) >20	<b>72</b>	80	77
Tin	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	1	1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<1
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

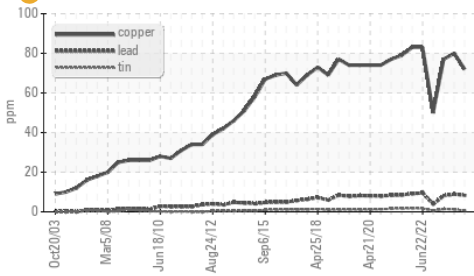
Boron	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 0	<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185(m) 0	<b>54</b>	59	60
Calcium	ppm	ASTM D5185(m) 50	<b>93</b>	100	103
Phosphorus	ppm	ASTM D5185(m) 330	<b>557</b>	563	588
Zinc	ppm	ASTM D5185(m) 430	<b>509</b>	527	511
Sulfur	ppm	ASTM D5185(m) 760	<b>1786</b>	1816	1791
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

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

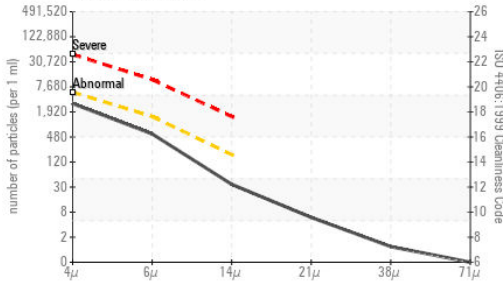
Silicon	ppm	ASTM D5185(m) >15	<b>2</b>	3	3
Sodium	ppm	ASTM D5185(m)	<b>3</b>	4	4
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	0	<1

# OIL ANALYSIS REPORT

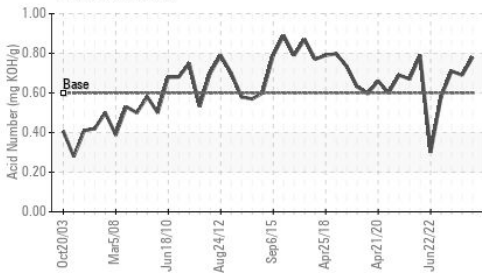
## Non-ferrous Metals



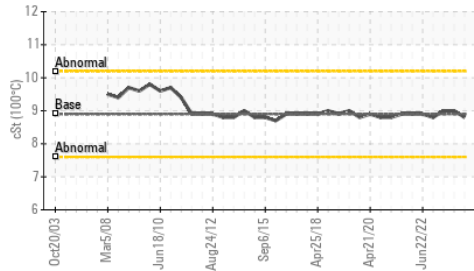
## Particle Count



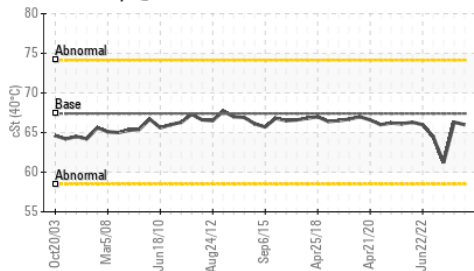
## Acid Number



## Viscosity @ 100°C



## Viscosity @ 40°C



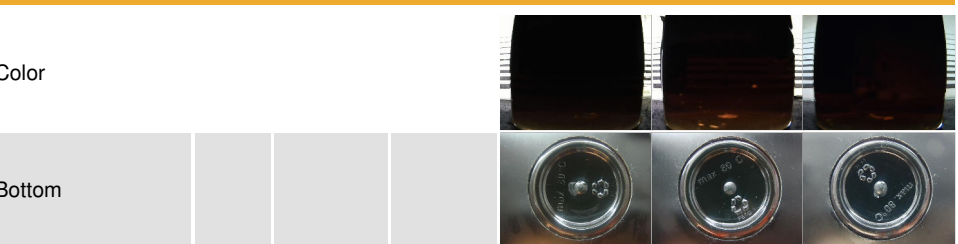
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>2667</b>	3304	4387
Particles >6µm	ASTM D7647	>1300	<b>499</b>	672	779
Particles >14µm	ASTM D7647	>160	<b>31</b>	48	47
Particles >21µm	ASTM D7647	>40	<b>5</b>	12	8
Particles >38µm	ASTM D7647	>10	<b>1</b>	1	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>19/16/12</b>	19/17/13	19/17/13

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.60	<b>0.78</b>	0.69	0.71

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	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*	>0.05	<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)	67.4	<b>66.0</b>	66.3	61.2
Visc @ 100°C	cSt ASTM D7279(m)	8.9	<b>8.8</b>	9	9
Viscosity Index (VI)	Scale ASTM D2270*	105	<b>106</b>	110	123

## SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0087728  
**Lab Number** : **02641145**  
**Unique Number** : 5798684  
**Test Package** : IND 2 ( Additional Tests: KV100, PQ, VI )

**Received** : 11 Jun 2024  
**Tested** : 12 Jun 2024  
**Diagnosed** : 12 Jun 2024 - Kevin Marson

**EXTRUDEX ALUMINIUM**  
 411 CHRISLEA ROAD  
 WOODBRIDGE, ON  
 CA L4L 8N4  
 Contact: Daljeet Munday  
 dmunday@extrudex.com  
 T: (416)745-4444  
 F: (416)745-0925

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.