

Machine Id  
**SLIDE FRAME #3**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 46 (--- GAL)**

**RECOMMENDATION**

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

**WEAR**

Copper ppm levels are abnormal. Lead ppm levels are noted. A sharp increase in the copper level is noted. Oil cooler core leaching or motor piston wear is indicated.

**CONTAMINATION**

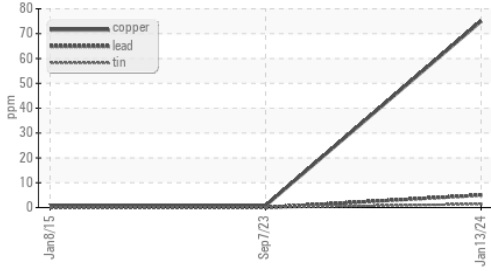
There is no indication of any contamination in the component(unconfirmed).

**FLUID CONDITION**

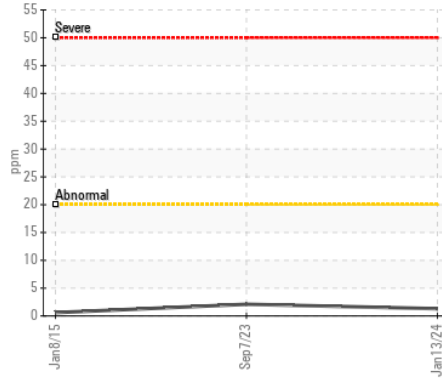
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0075707</b>	PC0075638	PC349300
Sample Date		Client Info		<b>13 Jan 2024</b>	07 Sep 2023	08 Jan 2015
Machine Age	hrs	Client Info		<b>0</b>	104730	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>20	<b>1</b>	2	<1
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	4	0
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	<1
Lead	ppm	ASTM D5185(m)	>20	<b>▲ 5</b>	0	0
Copper	ppm	ASTM D5185(m)	>20	<b>▲ 75</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>20	<b>1</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>0.05	<b>NEG</b>	NEG	NEG
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	.2%
Sodium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	0	<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	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)	50	<b>46</b>	45	114
Phosphorus	ppm	ASTM D5185(m)	330	<b>308</b>	345	231
Zinc	ppm	ASTM D5185(m)	430	<b>364</b>	393	298
Sulfur	ppm	ASTM D5185(m)	760	<b>769</b>	787	762
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	<b>46.1</b>	45.8	45.4
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	<b>7.3</b>	7.2	7.3
Viscosity Index (VI)	Scale	ASTM D2270*	104	<b>120</b>	117	122

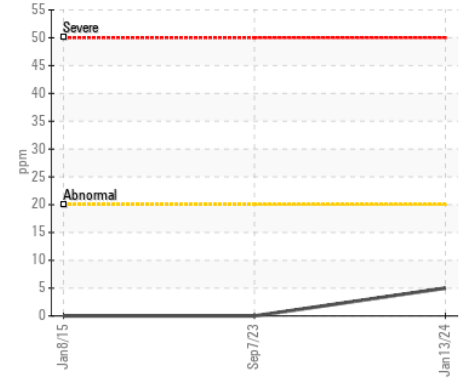
▲ Non-ferrous Metals



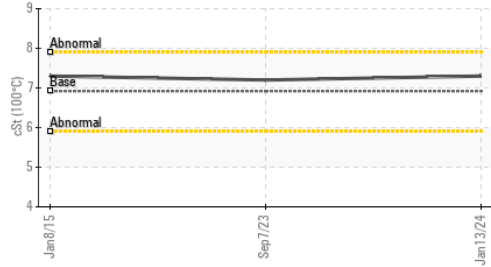
Iron (ppm)



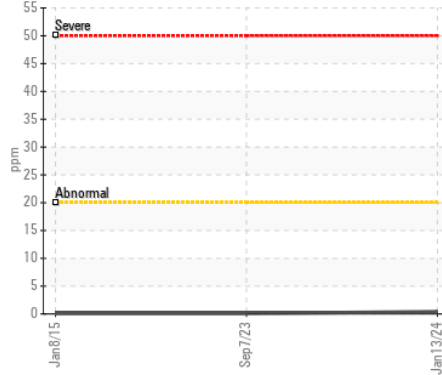
▲ Lead (ppm)



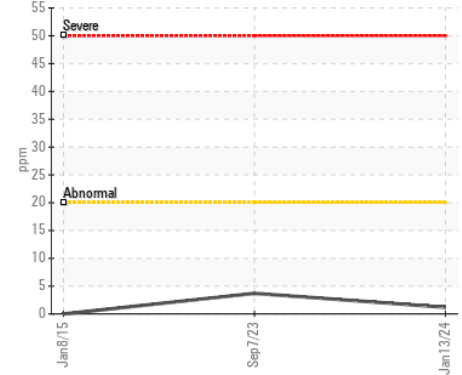
Viscosity @ 100°C



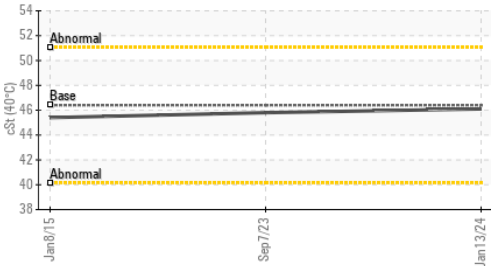
Aluminum (ppm)



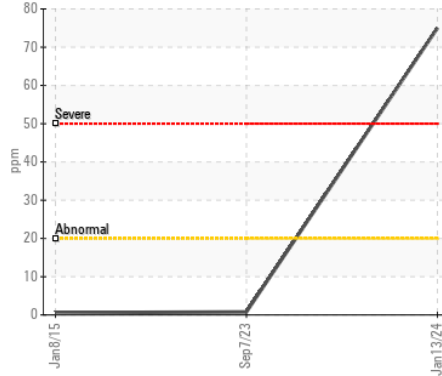
Chromium (ppm)



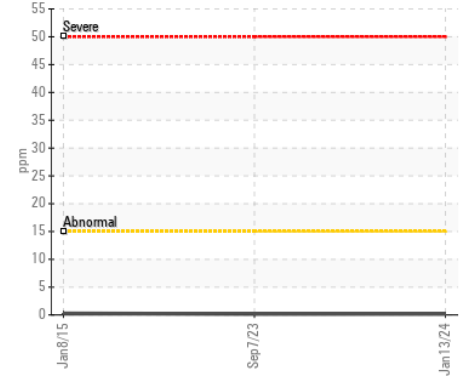
Viscosity @ 40°C



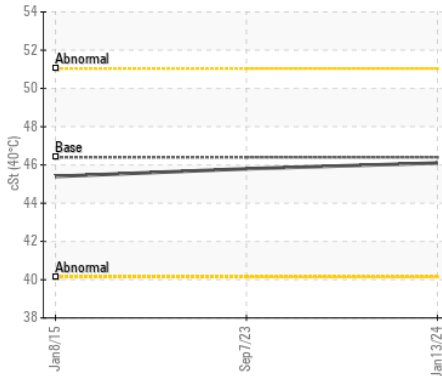
▲ Copper (ppm)



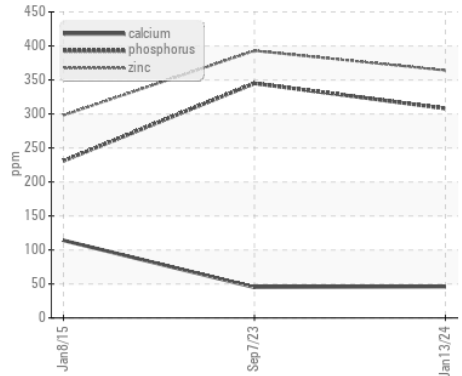
Silicon (ppm)



Viscosity @ 40°C



Additives



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ONTARIO CLEAN WATER AGENCY- SOUTH PEEL FACILITIES  
**Sample No.** : PC0075707 **Received** : 16 Jan 2024 1300 LAKESHORE RD  
**Lab Number** : 02609030 **Diagnosed** : 17 Jan 2024 MISSISSAUGA, ON  
**Unique Number** : 5710116 **Diagnostician** : Kevin Marson CA L5E 1E9  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

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.

Contact: Angelo Magnifico  
 amagnifico@ocwa.com  
 T: (905)274-1223  
 F: (905)274-2076