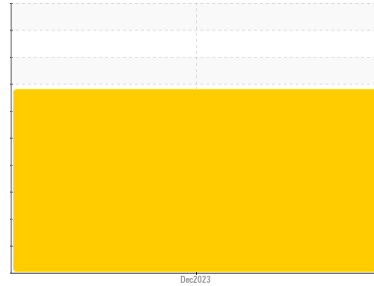




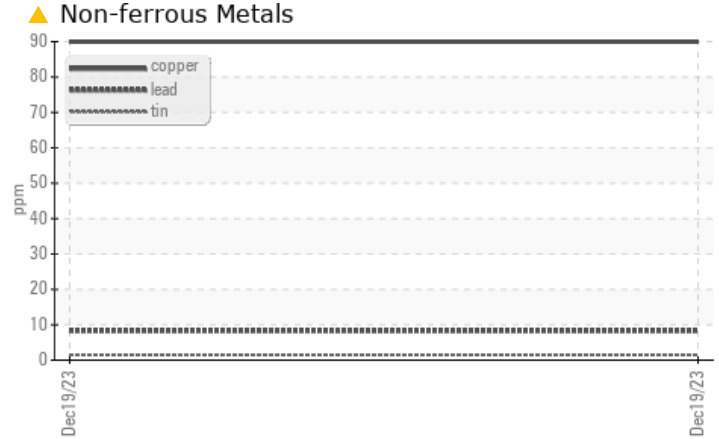
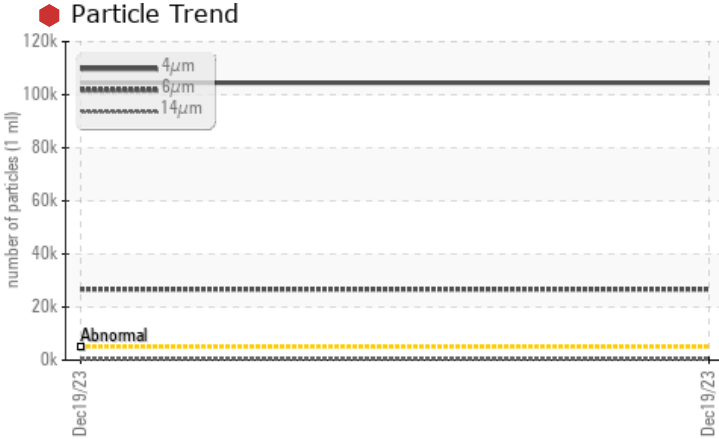
Machine Id
PRESS #5 PP4

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX AW 68 (3000 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for visible metal particles in the oil. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. 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.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Particles >4µm	ASTM D7647	>5000	104485	---	---	---
Particles >6µm	ASTM D7647	>1300	26712	---	---	---
Particles >14µm	ASTM D7647	>160	349	---	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	24/22/16	---	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
PrtFilter					no image	no image

Customer Id: EXTWOO
Sample No.: PC0076130
Lab Number: 02604640
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Contact Required	---	---	?	Please contact your representative for information regarding the proper sampling kits for your service.
Alert	---	---	?	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.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check For Visual Metal	---	---	?	We advise that you check for visible metal particles in the oil.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS



Machine Id
PRESS #5 PP4

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX AW 68 (3000 GAL)



DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the oil. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. 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. Light concentration of visible metal present.

Contamination

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

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service (unconfirmed). The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Particle Filter (Magn: 100 x)



SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0076130	---	---
Sample Date	Client Info	19 Dec 2023	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		SEVERE	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	0	---	---	
Iron	ppm	ASTM D5185(m)	>20	37	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---
Nickel	ppm	ASTM D5185(m)	>20	<1	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)		0	---
Aluminum	ppm	ASTM D5185(m)	>20	8	---
Lead	ppm	ASTM D5185(m)	>20	8	---
Copper	ppm	ASTM D5185(m)	>20	▲ 90	---
Tin	ppm	ASTM D5185(m)	>20	2	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

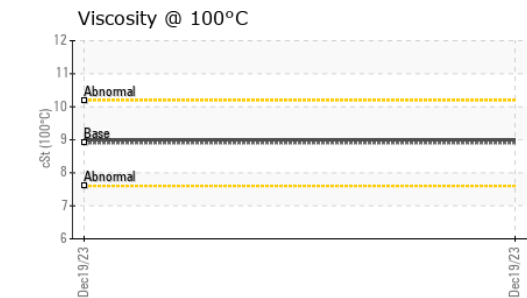
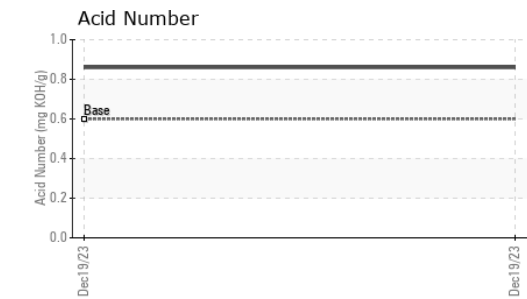
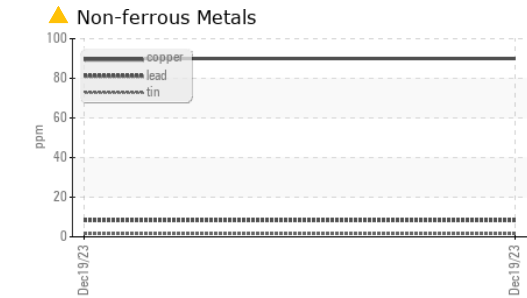
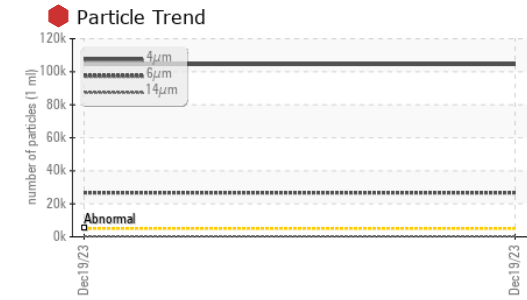
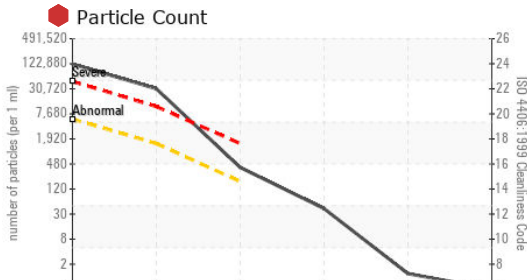
ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	<1	---
Barium	ppm	ASTM D5185(m)	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---
Manganese	ppm	ASTM D5185(m)	0	<1	---
Magnesium	ppm	ASTM D5185(m)	0	▲ 70	---
Calcium	ppm	ASTM D5185(m)	50	109	---
Phosphorus	ppm	ASTM D5185(m)	330	590	---
Zinc	ppm	ASTM D5185(m)	430	553	---
Sulfur	ppm	ASTM D5185(m)	760	▲ 1989	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	2	---
Sodium	ppm	ASTM D5185(m)		3	---
Potassium	ppm	ASTM D5185(m)	>20	1	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0076130 **Received** : 21 Dec 2023
Lab Number : 02604640 **Diagnosed** : 22 Dec 2023
Unique Number : 5697725 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, PQ, PrtFilter, TAN Man, 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.

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

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	104485	---	---
Particles >6µm	ASTM D7647	>1300	26712	---	---
Particles >14µm	ASTM D7647	>160	349	---	---
Particles >21µm	ASTM D7647	>40	36	---	---
Particles >38µm	ASTM D7647	>10	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	24/22/16	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.60	0.86	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	VLITE	---	---
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*	>0.05	NEG	---	---
Free Water	scalar Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	67.4	66.1	---	---
Visc @ 100°C	cSt ASTM D7279(m)	8.9	9	---	---
Viscosity Index (VI)	Scale ASTM D2270*	105	111	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image