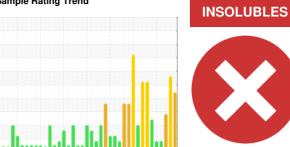


PROBLEM SUMMARY

Sample Rating Trend



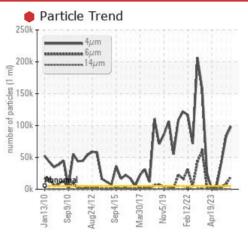
PRESS #8

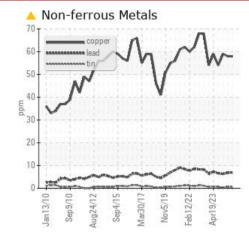
Component **Hydraulic System**

PETRO CANADA HYDREX AW 68 (10000 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

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. We recommend that you use electrostatic filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level. 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.

Customer Id: EXTWOO Sample No.: PC385873 Lab Number: 02604639 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

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	SEVERE			
Particles >4µm		ASTM D7647	>5000	82906	98288	42541			
Particles >6µm		ASTM D7647	>1300	8265	19817	2398			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	2 4/20/14	2 4/21/16	23/18/13			
MPC Varnish Potential	Scale	ASTM D7843(m)*	>15	5 1					

RECOMMENDE	D 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 Seals			?	Check seals and/or filters for points of contaminant entry.
Filter Fluid			?	We recommend that you use electrostatic filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level.

HISTORICAL DIAGNOSIS

19 Dec 2023 Diag: Kevin Marson

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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.Copper ppm levels are noted. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. 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.



WEAR



30 Nov 2023 Diag: Kevin Marson

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. 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. Copper ppm levels are noted. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the 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.



WEAD



30 May 2023 Diag: Kevin Marson

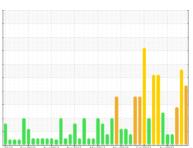
Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using Advanced Oil Monitoring (AOM) kits for this system. The AOM test package includes advanced level testing to determine the suitability of turbine and large industrial compressor oils for continued use. Copper ppm levels are noted. All other component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service (unconfirmed).





OIL ANALYSIS REPORT

Sample Rating Trend







PRESS #8

Component

Hydraulic System

PETRO CANADA HYDREX AW 68 (10000 GAL)

DIAGNOSIS

Recommendation

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. We recommend that you use electrostatic filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level. 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. All other component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. MPC (Membrane Patch Colorimetry) test indicates a high concentration of varnish present.

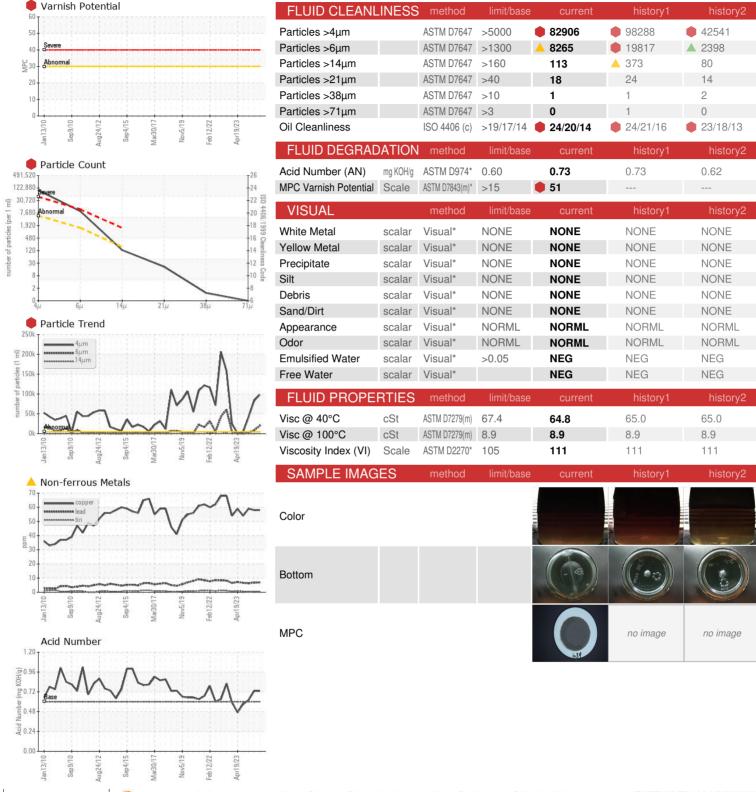
Fluid Condition

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.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info PC385873 PC0076125 PC0062177 Sample Date mths Client Info 0 0 0 0 0 Oil Age mths Client Info 0 0 0 0 Oil Age mths Client Info N/A N/A N/A N/A Sample Status SEVERE SEVERE SEVERE SEVERE SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Water WC ASTIM DS185mm >20 <1 <1 <1 </th <th></th> <th></th> <th>12010 Sep20</th> <th>10 Aug2012 Sep2015</th> <th>Mar2017 Nov2019 Feb2022</th> <th>Apr2023</th> <th></th>			12010 Sep20	10 Aug2012 Sep2015	Mar2017 Nov2019 Feb2022	Apr2023	
Sample Date Client Info 19 Dec 2023 19 Dec 2023 30 Nov 2023	SAMPLE INFOR	OITAM	method	limit/base	current	history1	history2
Machine Age mths Client Info 0 0 0 0 Oil Changed Client Info 0 0 0 0 Sample Status Client Info N/A N/A N/A N/A SEVERE SEVERE SEVERE SEVERE CONTAMINATION method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* 0 0 0 0 Iron ppm ASTM D8185(m) >20 32 31 31 Chromium ppm ASTM D8185(m) >20 <1	Sample Number		Client Info		PC385873	PC0076125	PC0062177
Oil Age mths Client Info N/A N/A N/A N/A Sample Status SEVERE SEVERE SEVERE SEVERE SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D5185m >20 32 31 31 Iron ppm ASTM D5185m >20 32 31 31 Chromium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >20 <1 <1 <1 River ppm ASTM D5185m >20 <7 <7 6 Copper ppm ASTM D5185m >20 <7 <7 6 Cupper ppm ASTM D5185m >20 <1 <1 <1	Sample Date		Client Info		19 Dec 2023	19 Dec 2023	30 Nov 2023
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Sample Status SEVERE SEVERE SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D5185(m) 20 32 31 31 Chromium ppm ASTM D5185(m) >20 <1	Oil Age	mths	Client Info		0	0	0
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Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* 0 0 0 Iron ppm ASTM D5185(m) >20 32 31 31 Chromium ppm ASTM D5185(m) >20 <1	Sample Status				SEVERE	SEVERE	SEVERE
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Tin ppm ASTM D5185(m) >20 <1 <1 <1 Antimony ppm ASTM D5185(m) 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 <1			,			▲ 58	
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Beryllium Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method Imit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 <1	•		. ,				
Cadmium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 <1			,		0	0	0
Boron ppm ASTM D5185(m) 0 0 0 <1	-		ASTM D5185(m)		0	0	0
Barium ppm ASTM D5185(m) 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 45 45 45 Calcium ppm ASTM D5185(m) 50 70 70 69 Phosphorus ppm ASTM D5185(m) 330 576 566 567 Zinc ppm ASTM D5185(m) 430 476 475 482 Sulfur ppm ASTM D5185(m) 760 1824 1829 1713 Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 4 3 4 Sodium ppm ASTM D5185(m) 1 1 2	Boron	ppm	ASTM D5185(m)	0	0	0	<1
Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 ▲ 45 ▲ 45 45 Calcium ppm ASTM D5185(m) 50 70 70 69 Phosphorus ppm ASTM D5185(m) 330 576 566 567 Zinc ppm ASTM D5185(m) 430 476 475 482 Sulfur ppm ASTM D5185(m) 760 ▲ 1824 ▲ 1829 1713 Lithium ppm ASTM D5185(m) <1	Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium ppm ASTM D5185(m) 0 ▲ 45 ↓ 45 ↓ 45 Calcium ppm ASTM D5185(m) 50 70 70 69 Phosphorus ppm ASTM D5185(m) 330 576 566 567 Zinc ppm ASTM D5185(m) 430 476 475 482 Sulfur ppm ASTM D5185(m) 760 ▲ 1824 ▲ 1829 1713 Lithium ppm ASTM D5185(m) < 1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 4 3 4 Sodium ppm ASTM D5185(m) 1 1 1 2	Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Calcium ppm ASTM D5185(m) 50 70 70 69 Phosphorus ppm ASTM D5185(m) 330 576 566 567 Zinc ppm ASTM D5185(m) 430 476 475 482 Sulfur ppm ASTM D5185(m) 760 ▲ 1824 ▲ 1829 1713 Lithium ppm ASTM D5185(m) <1	Manganese	ppm	ASTM D5185(m)	0	0	0	0
Phosphorus ppm ASTM D5185(m) 330 576 566 567 Zinc ppm ASTM D5185(m) 430 476 475 482 Sulfur ppm ASTM D5185(m) 760 ▲ 1824 ▲ 1829 1713 Lithium ppm ASTM D5185(m) <1	Magnesium	ppm	ASTM D5185(m)	0	4 5	4 5	45
Zinc ppm ASTM D5185(m) 430 476 475 482 Sulfur ppm ASTM D5185(m) 760 ▲ 1824 ▲ 1829 1713 Lithium ppm ASTM D5185(m) <1	Calcium	ppm	ASTM D5185(m)	50	70	70	69
Sulfur ppm ASTM D5185(m) 760 ▲ 1824 ▲ 1829 1713 Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 4 3 4 Sodium ppm ASTM D5185(m) 1 1 2	Phosphorus	ppm	ASTM D5185(m)	330	576	566	567
Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 4 3 4 Sodium ppm ASTM D5185(m) 1 1 2	Zinc	ppm	ASTM D5185(m)	430	476	475	482
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 4 3 4 Sodium ppm ASTM D5185(m) 1 1 2	Sulfur	ppm	ASTM D5185(m)	760	1824	▲ 1829	1713
Silicon ppm ASTM D5185(m) >15 4 3 4 Sodium ppm ASTM D5185(m) 1 1 2	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
Sodium ppm ASTM D5185(m) 1 1 2	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185(m) 1 1 2	Silicon	ppm	ASTM D5185(m)	>15	4	3	4
Potassium ppm ASTM D5185(m) >20 <1 <1 0	Sodium		ASTM D5185(m)		1	1	2
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

Test Package

02604639 : 5697724

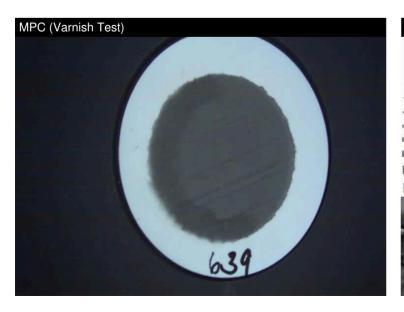
: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved : 21 Dec 2023 : PC385873 Diagnosed : 22 Dec 2023 Diagnostician : Kevin Marson : IND 2 (Additional Tests: KV100, MPC, PQ, TAN Man, VI)

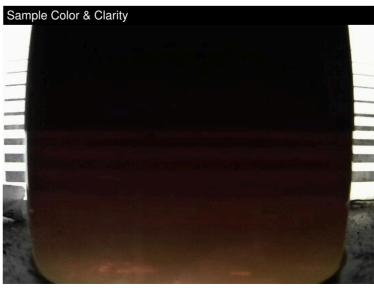
To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **EXTRUDEX ALUMINIUM** 411 CHRISLEA ROAD

WOODBRIDGE, ON CA L4L 8N4

Contact: Daljeet Munday dmunday@extrudex.com T: (416)745-4444 F: (416)745-0925

Validity of results and interpretation are based on the sample and information as supplied.





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