

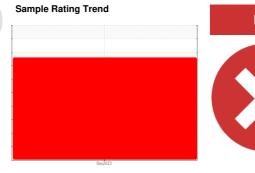
PROBLEM SUMMARY

PRESS #5

Component

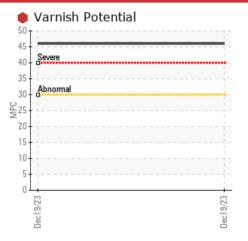
Reservoir Hydraulic System

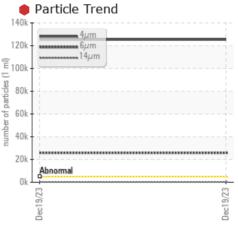
PETRO CANADA HYDREX AW 68 (3000 GAL)

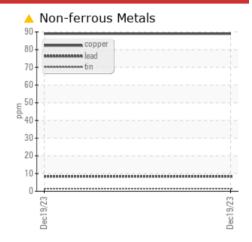




COMPONENT CONDITION SUMMARY







RECOMMENDATION

Check seals and/or filters for points of contaminant entry. We advise that you check for visible metal particles in the oil. 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.: PC0076134 Lab Number: 02604638 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

PROBLEMATION	CTEST	RESULT	S			
Sample Status				SEVERE		
Particles >4µm		ASTM D7647	>5000	125369		
Particles >6µm		ASTM D7647	>1300	25870		
Particles >14μm		ASTM D7647	>160	4 333		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	2 4/22/16		
MPC Varnish Potential	Scale	ASTM D7843(m)*	>15	4 6		
White Metal	scalar	Visual*	NONE	▲ VLITE		
PrtFilter					no image	no image

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.		
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



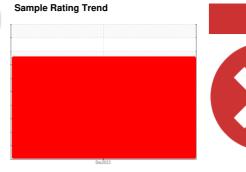
OIL ANALYSIS REPORT

PRESS #5

Component

Reservoir Hydraulic System

PETRO CANADA HYDREX AW 68 (3000 GAL)





DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. We advise that you check for visible metal particles in the oil. 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. Light concentration of visible metal present.

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

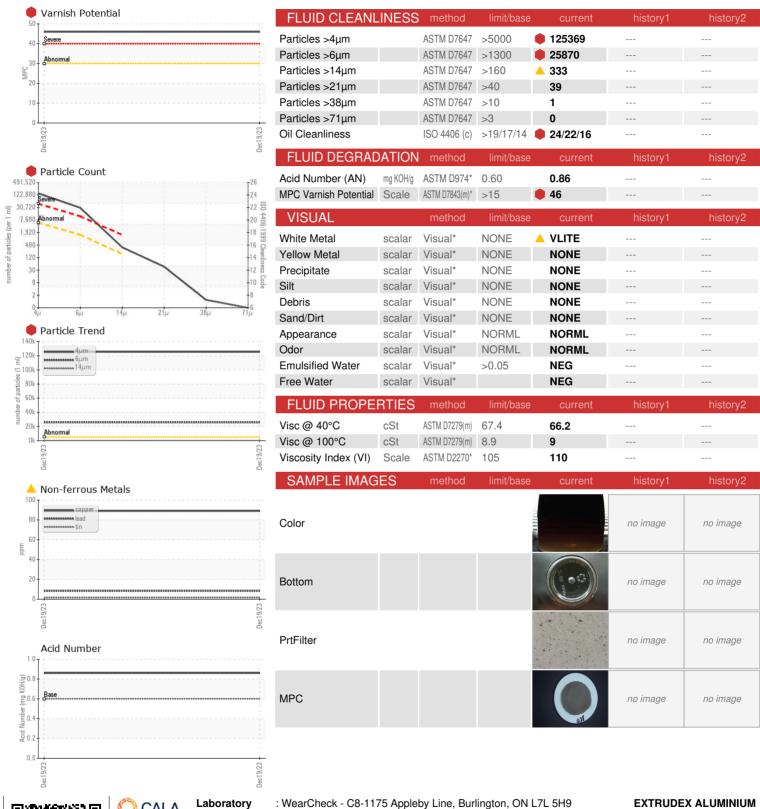
Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service (unconfirmed). The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Particle Filter (Magn: 1	00 x)
	01 100 200 8004

AL)				Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0076134		
Sample Date		Client Info		19 Dec 2023		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>20	36		
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	89		
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	1 70		
Calcium	ppm	ASTM D5185(m)	50	108		
Phosphorus	ppm	ASTM D5185(m)	330	586		
Zinc	ppm	ASTM D5185(m)	430	553		
Sulfur	ppm	ASTM D5185(m)	760	1989		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	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





CALA ISO 17025:2017 Accredited

Laboratory

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

Test Package

: PC0076134 . 02604638 : 5697723

Recieved : 21 Dec 2023 : 22 Dec 2023 Diagnosed

Diagnostician : Kevin Marson

CA L4L 8N4 : IND 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, MPC, PQ, PrtFilter, TAN Man, V Contact: Daljeet Munday dmunday@extrudex.com To discuss this sample report, contact Customer Service at 1-800-268-2131.

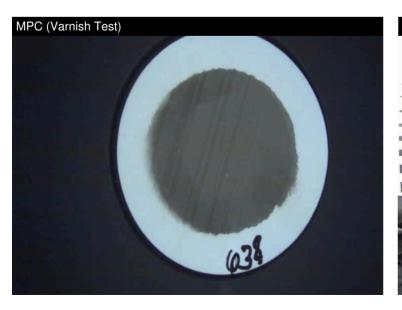
Contact/Location: Daljeet Munday - EXTWOO

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.

T: (416)745-4444 F: (416)745-0925

411 CHRISLEA ROAD

WOODBRIDGE, ON





Report Id: EXTWOO [WCAMIS] 02604638 (Generated: 12/22/2023 12:35:30) Rev: 1

This page left intentionally blank