

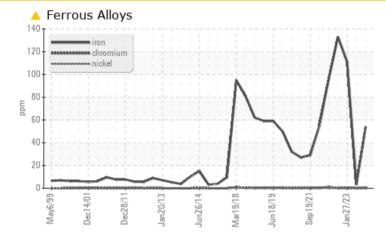
## **PROBLEM SUMMARY**

#### Area **PUMPHOUSE/BACKWASH PUMPS** Machine Id **C - Backwash Pump 1 - OB** Component

Lube System

# PETRO CANADA HYDREX AW 100 (1 GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				ATTENTION	ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185(m)	>20	🔺 54	3	<b>1</b> 11	

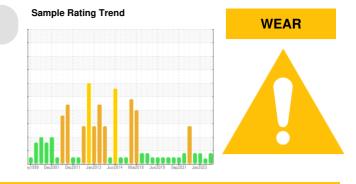
Customer Id: LEWBOSC Sample No.: WC0850112 Lab Number: 02576225 Test Package: IND 2



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*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 <u>gloria.gonzalez@wearcheck.com</u>



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample			?	We recommend an early resample to monitor this condition.			

### HISTORICAL DIAGNOSIS



### 31 May 2023 Diag: Bill Quesnel

Resample at the next service interval to monitor.All 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 oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### 27 Jan 2023 Diag: Kevin Marson

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. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

#### 13 Dec 2022 Diag: Kevin Marson

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. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.



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## **OIL ANALYSI**

Particles >38µm

Particles >71µm

**Oil Cleanliness** 

ASTM D7647 >640000

ASTM D7647 >160000

ISO 4406 (c) >--/30/30

2

1

24/22/16

0

0

23/21/16

### PUMPHOUSE/BACKWASH P C - Backwash Pump 1 - OB Component

Lube System Fluid

### PETRO CANADA HYDREX AW 100 (1 GAL)

### DIAGNOSIS

#### Recommendation

We recommend an early resample to monitor this condition.

#### A Wear

Iron ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. 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 suitable for further service.

SIS REPO	ORT	Samp	le Rating Tre	end	1000150001	WEAR
PUMPS						
SAMPLE INFOR		w1999 Dec200	limit/base	n2014 Mar2018 Jun2019 Sep202	1 Jan2023	history ()
			IIIIII/Dase		history1	history2
Sample Number		Client Info		WC0850112	WC0824390	WC0785654
Sample Date Machine Age	hrs	Client Info Client Info		16 Aug 2023	31 May 2023	27 Jan 2023
Ũ	hrs	Client Info		0	0	0
Oil Age Oil Changed	1115	Client Info		U N/A	N/A	N/A
-		Client Into		ATTENTION	ABNORMAL	ABNORMAL
Sample Status				ATTENTION	ADIVORIVIAL	ADINORIVIAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>DFLT	9	0	24
ron	ppm	ASTM D5185(m)	>20	<u> </u>	3	<b>1</b> 11
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0
Fitanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
ead	ppm	ASTM D5185(m)	>20	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>20	1	10	2
īn	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	<1
/anadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		<1	0	1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	0	2
Barium	ppm	ASTM D5185(m)	0	0	8	0
Nolybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
lagnesium	ppm	ASTM D5185(m)	0	<1	<1	<1
Calcium	ppm	ASTM D5185(m)		47	46	50
hosphorus	ppm	ASTM D5185(m)	330	347	342	362
linc	ppm	ASTM D5185(m)	430	426	382	400
Sulfur	ppm	ASTM D5185(m)	760	2500	2645	2832
ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	3	2	3
Sodium	ppm	ASTM D5185(m)	-	<1	0	<1
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
FLUID CLEANLI		method	limit/base		history1	history2
Particles >4µm		ASTM D7647	10040000	117973	53652	148174
Particles >6μm Particles >14μm		ASTM D7647		32885	10042	56392
Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647	>10240000 >2560000	331 70	352 54	1859 520
Particles >21µm		ASTM D7647	>2560000	70	04	520

27

2

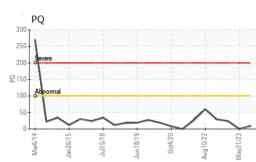
24/23/18

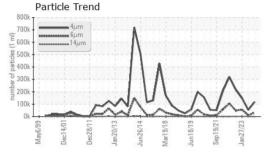


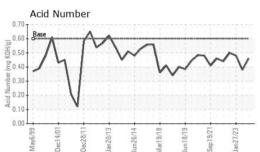
# **OIL ANALYSIS REPORT**

Color

Bottom







FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.46	0.38	0.48
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>1	NEG	NEG	.2%
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	101	92.9	▲ 88.4	100
SAMPLE IMAGES		method	limit/base	current	history1	history2

