

PROBLEM SUMMARY

PUMPHOUSE/CASTER SPRAY WATER PUMPS C - Caster Spray Water Electric Pump IB

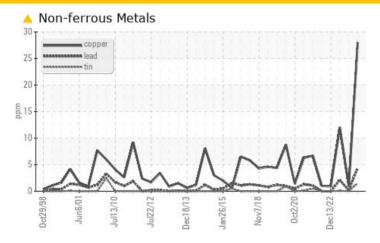
Lube System

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				ABNORMAL	NORMAL	ABNORMAL		
Copper	ppm	ASTM D5185(m)	>20	28	1	12		

Customer Id: LEWBOSC Sample No.: WC0850118 Lab Number: 02576259 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
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

31 May 2023 Diag: Wes Davis

NORMAL



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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



27 Jan 2023 Diag: Kevin Marson

WEAR



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 water content is negligible. 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.

view report

13 Dec 2022 Diag: Kevin Marson

NORMAL



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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

PUMPHOUSE/CASTER SPRAY WATER PUMPS C - Caster Spray Water Electric Pump IB

Lube System

PETRO CANADA HYDREX AW 100 (1 GAL)





DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition.

Wear

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

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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0850118	WC0824401	WC0785664
Sample Date		Client Info		16 Aug 2023	31 May 2023	27 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>DFLT	0	0	6
Iron	ppm	ASTM D5185(m)	>20	29	5	△ 78
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	4	<1	2
Copper	ppm	ASTM D5185(m)	>20	<u>^</u> 28	1	12
Tin	ppm	ASTM D5185(m)	>20	2	0	<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
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	1	<1
Barium	ppm	ASTM D5185(m)	0	0	7	0
Molybdenum	ppm	ASTM D5185(m)	0	0	2	0
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	8	<1
Calcium	ppm	ASTM D5185(m)	50	48	72	49
Phosphorus	ppm	ASTM D5185(m)	330	344	360	352
Zinc	ppm	ASTM D5185(m)	430	396	413	367
Sulfur	ppm	ASTM D5185(m)	760	2454	2470	2464
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	i	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	3	5	9
Sodium	ppm	ASTM D5185(m)		4	<1	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		118169	93860	146377
Particles >6µm		ASTM D7647	>10240000	52474	19696	57057
		ACTM D7647	>10240000	2374	1310	2309
Particles >14μm		ASTM D7647	>10240000	23/4	1010	2505
Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647	>2560000	460	315	532
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Particles >21µm		ASTM D7647	>2560000	460	315	532



OIL ANALYSIS REPORT

