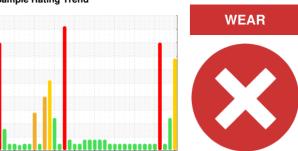


PROBLEM SUMMARY

Sample Rating Trend

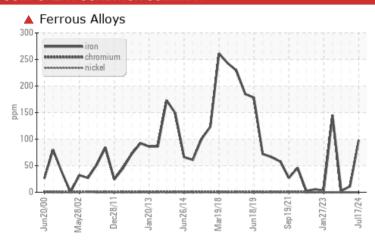


PUMPHOUSE/BACKWASH PUMPS C - Backwash Pump 2 - IB

Component Lube System

PETRO CANADA HYDREX AW 100 (1 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL	NORMAL			
Iron	ppm	ASTM D5185(m)	>20	98	11	3			
Appearance	scalar	Visual*	NORML	HAZY	▲ LAYRD	NORML			

Customer Id: LEWBOSC Sample No.: WC0968464 Lab Number: 02648446 Test Package: IND 2



To manage this report scan the QR code

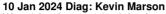
To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

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 Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			

HISTORICAL DIAGNOSIS

WATER





We advise that you check for the source of water entry. 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 advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.All component wear rates are normal. Free water present. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



16 Aug 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.



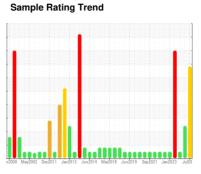


OIL ANALYSIS REPORT

PUMPHOUSE/BACKWASH PUMPS C - Backwash Pump 2 - IB

Lube System

PETRO CANADA HYDREX AW 100 (1 GAL)





DIAGNOSIS

Recommendation

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.

Wear

Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0968464	WC0898673	WC0850113
Sample Date		Client Info		17 Jul 2024	10 Jan 2024	16 Aug 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				SEVERE	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>DFLT	0	0	0
Iron	ppm	ASTM D5185(m)	>20	4 98	11	3
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	0
Lead	ppm	ASTM D5185(m)	>20	<1	<1	0
Copper	ppm	ASTM D5185(m)	>20	1	1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
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	0	0	0
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	<1	<1
Calcium	ppm	ASTM D5185(m)	50	49	48	50
Phosphorus	ppm	ASTM D5185(m)	330	337	329	346
Zinc	ppm	ASTM D5185(m)	430	416	421	423
Sulfur	ppm	ASTM D5185(m)	760	2572	2577	2452
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	4	2	2
Sodium	ppm	ASTM D5185(m)		<1	0	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Water	%	ASTM D6304*	>1	0.001		
ppm Water	ppm	ASTM D6304*	>10000	12		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		150499	83525	59976
Particles >6µm		ASTM D7647	>10240000	63731	15241	12588
Particles >14µm		ASTM D7647	>10240000	225	363	392
Particles >21µm		ASTM D7647	>2560000	45	52	85
Particles >38µm		ASTM D7647	>640000	3	2	1
Particles >71μm		ASTM D7647	>160000	1	1	0
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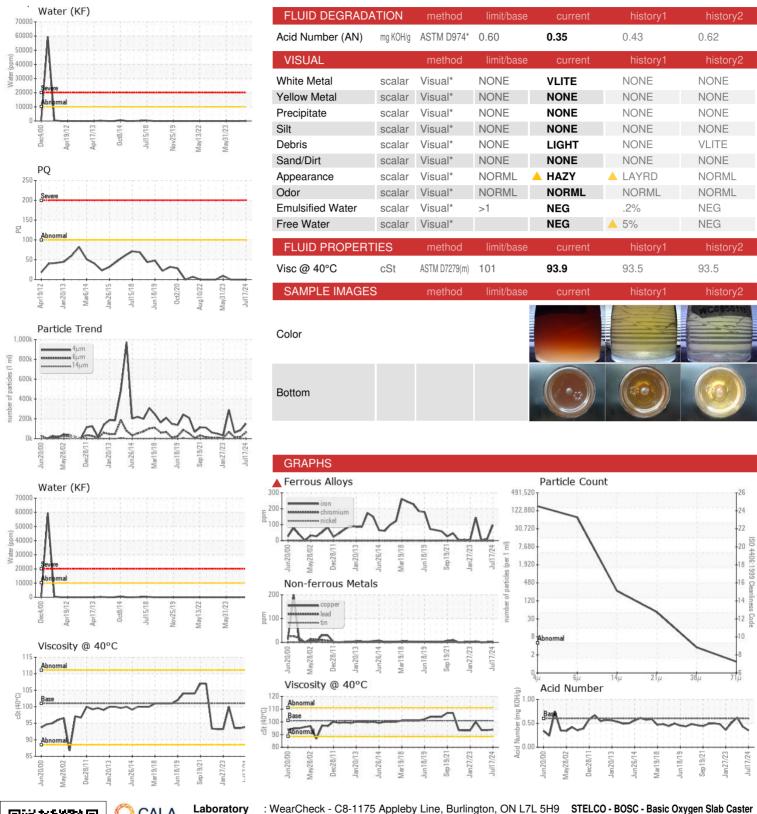
24/21/16 23/21/16 Submitted By: Bob Melanson

24/23/15

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



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: WC0968464 : 02648446 Unique Number : 5813998

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received : 17 Jul 2024 Tested : 18 Jul 2024 Diagnosed

: 19 Jul 2024 - Kevin Marson Test Package : IND 2 (Additional Tests: Bottom, KF, PQ)

Thomas.Walden@stelco.com T: (519)587-4541 F: (519)587-7702

2330 Regional Road #3, Door: BOSC8

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.

NANTICOKE, ON

Contact: Tom Walden

CA NOA 1L0