

Area
Recycling Line
 Machine ID
EREMA Hydraulic Vacuum System
 Component
Vacuum Pump
 Fluid
PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation
 We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 There is a high amount of silt (particulates < 14 microns in size) present in the oil.

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0107755	PCA0107747	---
Sample Date	Client Info	08 Apr 2024	02 Nov 2023	---
Machine Age	hrs Client Info	0	0	---
Oil Age	hrs Client Info	0	0	---
Oil Changed	Client Info	Not Changed	Not Changed	---
Sample Status		ABNORMAL	NORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	0	<1	---
Chromium	ppm ASTM D5185m >20	0	0	---
Nickel	ppm ASTM D5185m >20	0	<1	---
Titanium	ppm ASTM D5185m	0	0	---
Silver	ppm ASTM D5185m	0	0	---
Aluminum	ppm ASTM D5185m >20	0	<1	---
Lead	ppm ASTM D5185m >20	0	<1	---
Copper	ppm ASTM D5185m >20	0	<1	---
Tin	ppm ASTM D5185m >20	0	0	---
Vanadium	ppm ASTM D5185m	0	0	---
Cadmium	ppm ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	0	0	---
Barium	ppm ASTM D5185m 0	0	2	---
Molybdenum	ppm ASTM D5185m 0	0	<1	---
Manganese	ppm ASTM D5185m 0	0	<1	---
Magnesium	ppm ASTM D5185m 0	43	<1	---
Calcium	ppm ASTM D5185m 50	35	0	---
Phosphorus	ppm ASTM D5185m 330	283	8	---
Zinc	ppm ASTM D5185m 430	339	0	---
Sulfur	ppm ASTM D5185m 760	911	0	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	0	0	---
Sodium	ppm ASTM D5185m	0	0	---
Potassium	ppm ASTM D5185m >20	0	2	---
Water	% ASTM D6304 >.1	NEG	NEG	---

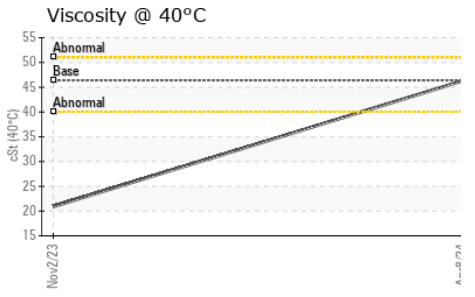
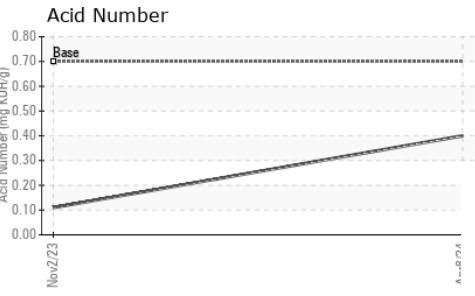
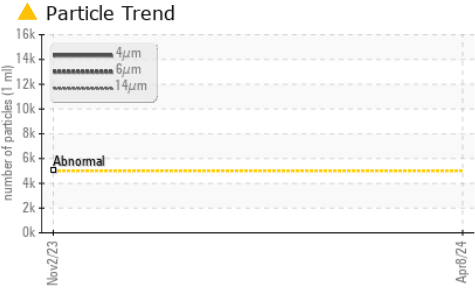
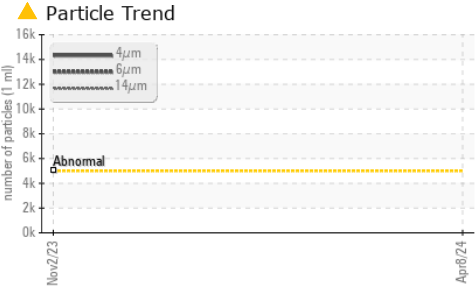
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 14356	---	---
Particles >6µm	ASTM D7647 >1300	▲ 4108	---	---
Particles >14µm	ASTM D7647 >160	68	---	---
Particles >21µm	ASTM D7647 >40	16	---	---
Particles >38µm	ASTM D7647 >10	1	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 21/19/13	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.70	0.40	0.11	---

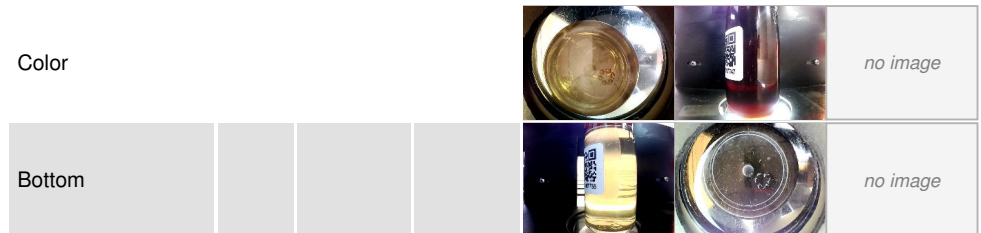
OIL ANALYSIS REPORT



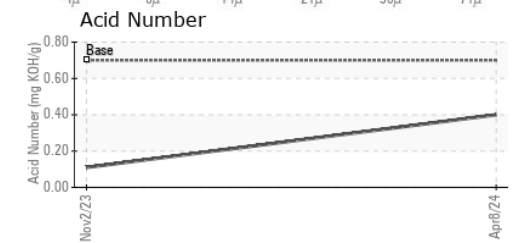
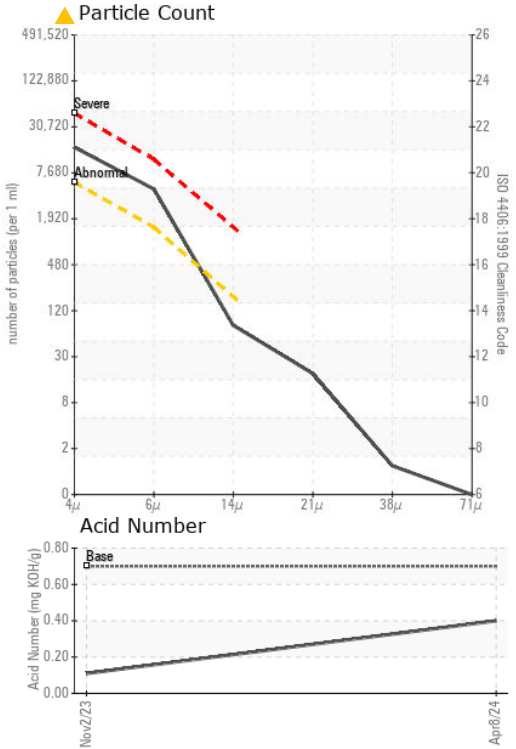
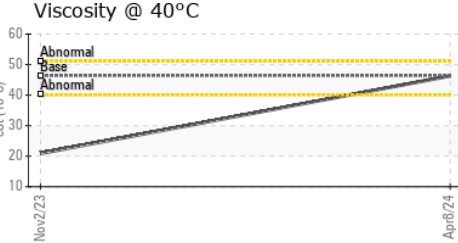
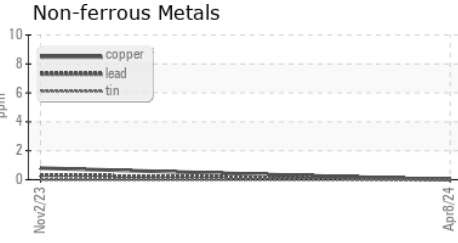
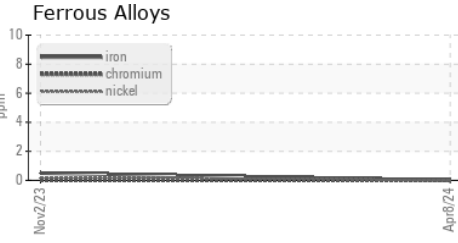
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.4	46.3	20.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0107755 **Received** : 10 Apr 2024
Lab Number : **06144177** **Tested** : 15 Apr 2024
Unique Number : 10968985 **Diagnosed** : 15 Apr 2024 - Jonathan Hester
Test Package : PLANT

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)