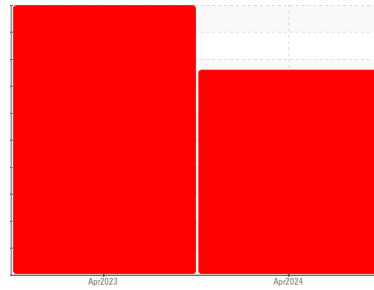


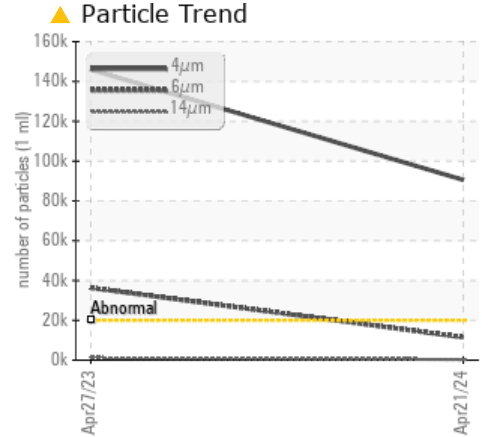
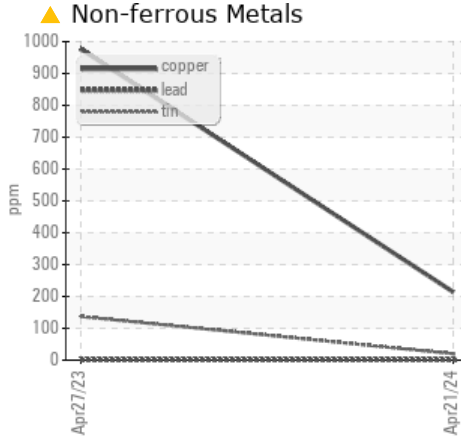
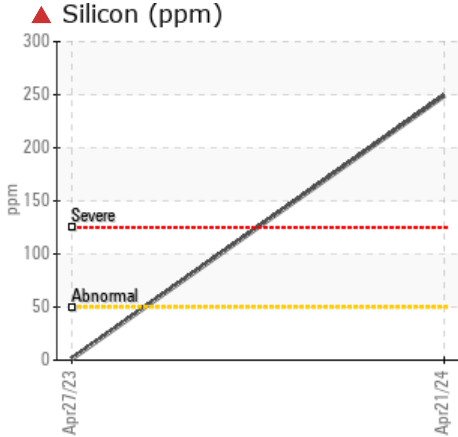
PROBLEM SUMMARY

Area
PHASE 2 PH 2
 Machine Id
HT 23
 Component
Agitator Gearbox
 Fluid
PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Copper	ppm	ASTM D5185m	>50	▲ 214	▲ 977	---
Tin	ppm	ASTM D5185m	>10	▲ 20	▲ 137	---
Silicon	ppm	ASTM D5185m	>50	▲ 249	1	---
Particles >4µm		ASTM D7647	>20000	▲ 90556	▲ 145920	---
Particles >6µm		ASTM D7647	>5000	▲ 11495	▲ 36333	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/21/15	▲ 24/22/17	---

Customer Id: KRAMASIOW
 Sample No.: PCA0119930
 Lab Number: 06160333
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

WEAR



27 Apr 2023 Diag: Doug Bogart

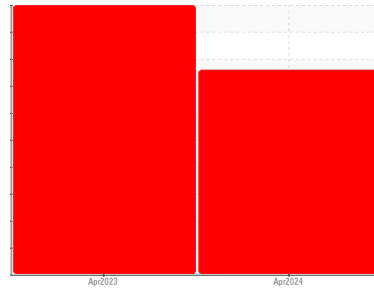
We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



Area
PHASE 2 PH 2
 Machine Id
HT 23
 Component
Agitator Gearbox
 Fluid
PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)

DIAGNOSIS

Recommendation
 We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

Wear
 Bearing and/or bushing wear is indicated.

Contamination
 There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition
 The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0119930	USP247610	---
Sample Date	Client Info		21 Apr 2024	27 Apr 2023	---
Machine Age	yrs	Client Info	0	0	---
Oil Age	yrs	Client Info	0	0	---
Oil Changed	Client Info		Not Chngd	N/A	---
Sample Status			SEVERE	SEVERE	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	8	12
Chromium	ppm	ASTM D5185m	>10	0	0
Nickel	ppm	ASTM D5185m	>10	0	<1
Titanium	ppm	ASTM D5185m		0	0
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m	>25	0	0
Lead	ppm	ASTM D5185m	>100	1	<1
Copper	ppm	ASTM D5185m	>50	214	977
Tin	ppm	ASTM D5185m	>10	20	137
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		18	41
Barium	ppm	ASTM D5185m		0	0
Molybdenum	ppm	ASTM D5185m		3	0
Manganese	ppm	ASTM D5185m		0	0
Magnesium	ppm	ASTM D5185m		<1	<1
Calcium	ppm	ASTM D5185m		<1	<1
Phosphorus	ppm	ASTM D5185m		439	634
Zinc	ppm	ASTM D5185m		9	13
Sulfur	ppm	ASTM D5185m		6964	19078

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	249	1
Sodium	ppm	ASTM D5185m		<1	0
Potassium	ppm	ASTM D5185m	>20	0	2

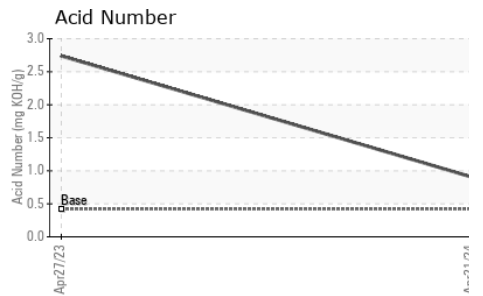
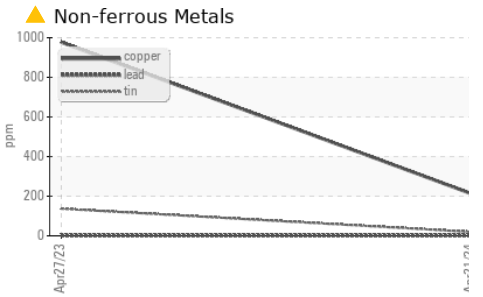
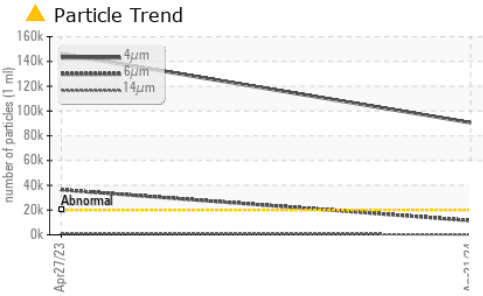
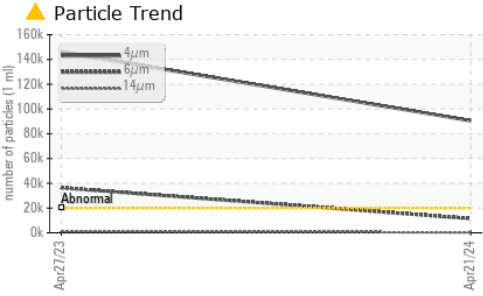
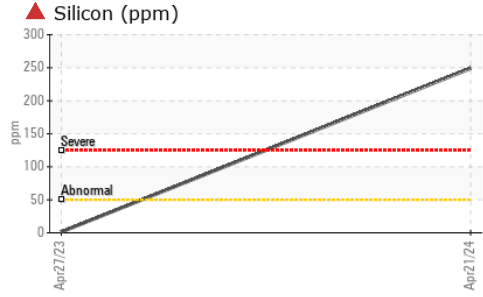
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	90556	145920	---
Particles >6µm	ASTM D7647	>5000	11495	36333	---
Particles >14µm	ASTM D7647	>640	279	1173	---
Particles >21µm	ASTM D7647	>160	59	354	---
Particles >38µm	ASTM D7647	>40	6	67	---
Particles >71µm	ASTM D7647	>10	4	10	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	24/21/15	24/22/17	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.42	0.91	2.74

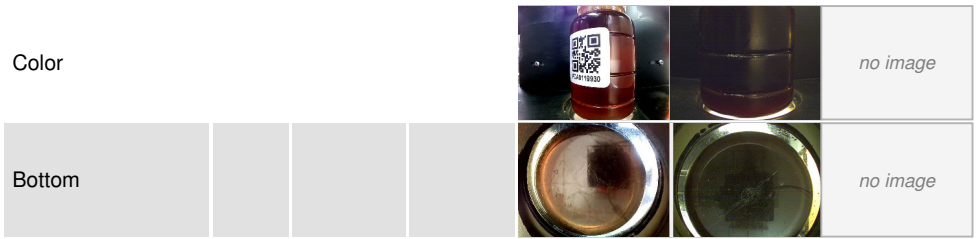
OIL ANALYSIS REPORT



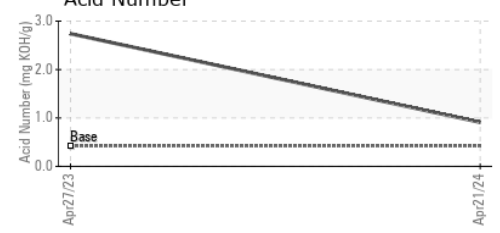
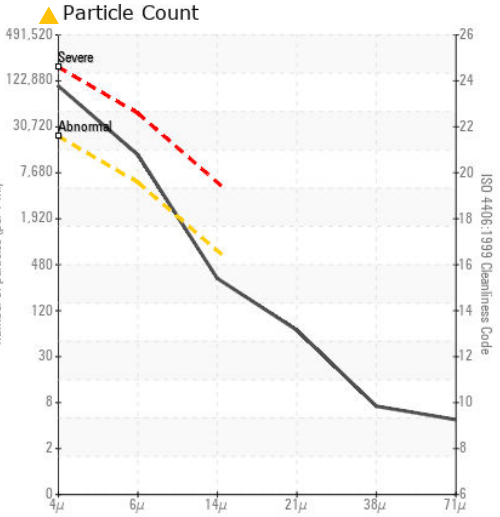
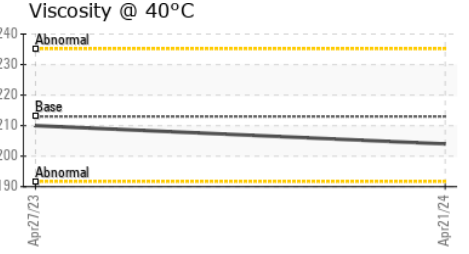
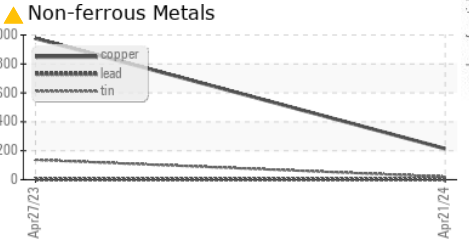
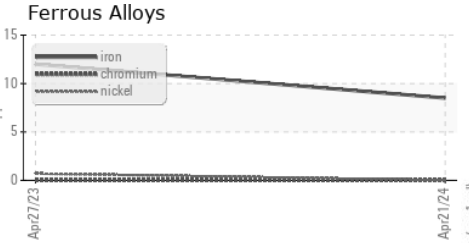
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 213	204	210	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119930 **Received** : 25 Apr 2024
Lab Number : 06160333 **Tested** : 26 Apr 2024
Unique Number : 10995756 **Diagnosed** : 30 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

KraftHeinz - Mason City - Plant 8360
 1022 12TH ST
 MASON CITY, IA
 US 50401
 Contact: Service Manager

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)

T:
 F: (641)421-2936