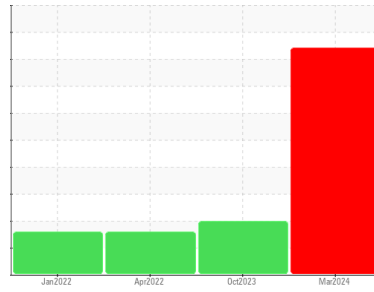


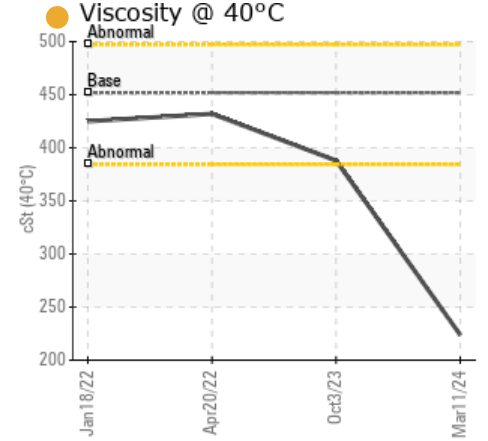
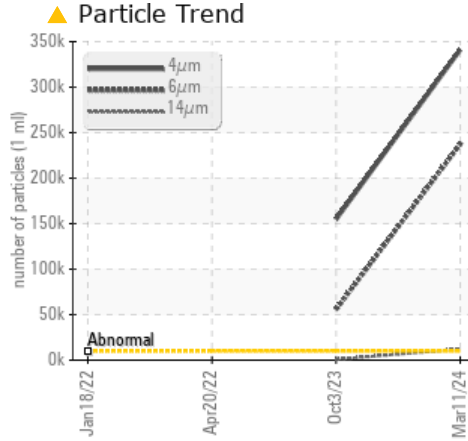
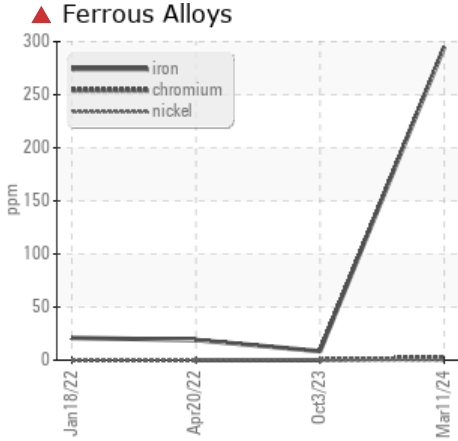
PROBLEM SUMMARY

Area
MIX ROOM C [98810509]
 Machine Id
KR-GR-003474 - TRANSFER HOPPER (S/N MIX C - 11528513)
 Component
Pump
 Fluid
PETRO CANADA ENDURATEX EP 460 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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. (Customer Sample Comment: 98810509)

PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m >90	▲ 295	8	19
Particles >4µm		ASTM D7647 >10000	▲ 340943	▲ 154736	---
Particles >6µm		ASTM D7647 >2500	▲ 237305	▲ 55683	---
Particles >14µm		ASTM D7647 >640	▲ 12355	▲ 778	---
Particles >21µm		ASTM D7647 >160	▲ 840	▲ 89	---
Oil Cleanliness		ISO 4406 (c) >20/18/16	▲ 26/25/21	▲ 24/23/17	---

Customer Id: KRAKIR
 Sample No.: PCA0116655
 Lab Number: 06133273
 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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

ISO



03 Oct 2023 Diag: Don Baldrige

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



WATER



20 Apr 2022 Diag: Doug Bogart

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



WATER



18 Jan 2022 Diag: Jonathan Hester

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

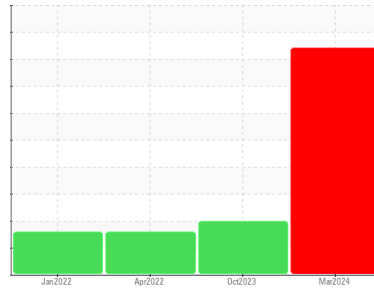
[view report](#)



OIL ANALYSIS REPORT

Area
MIX ROOM C [98810509]
Machine Id
KR-GR-003474 - TRANSFER HOPPER (S/N MIX C - 11528513)
Component
Pump
Fluid
PETRO CANADA ENDURATEX EP 460 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation
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. (Customer Sample Comment: 98810509)

Wear
The iron level is severe.

Contamination
There is a high amount of particulates present in the oil.

Fluid Condition
Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0116655	PCA0108248	PCA0013806
Sample Date	Client Info	11 Mar 2024	03 Oct 2023	20 Apr 2022
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		SEVERE	ABNORMAL	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >90	▲ 295	8	19
Chromium	ppm ASTM D5185m >5	2	0	0
Nickel	ppm ASTM D5185m >5	0	<1	0
Titanium	ppm ASTM D5185m >3	2	<1	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >7	3	<1	2
Lead	ppm ASTM D5185m >12	<1	0	0
Copper	ppm ASTM D5185m >30	3	0	<1
Tin	ppm ASTM D5185m >9	<1	0	0
Antimony	ppm ASTM D5185m	---	---	---
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 55	0	0	10
Barium	ppm ASTM D5185m 0	<1	0	0
Molybdenum	ppm ASTM D5185m 0	<1	0	77
Manganese	ppm ASTM D5185m 0	2	<1	<1
Magnesium	ppm ASTM D5185m 2	<1	4	0
Calcium	ppm ASTM D5185m 6	12	18	131
Phosphorus	ppm ASTM D5185m 240	456	209	536
Zinc	ppm ASTM D5185m 3	3	0	14
Sulfur	ppm ASTM D5185m 10310	1114	831	4389

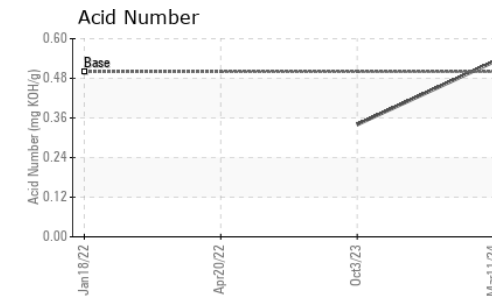
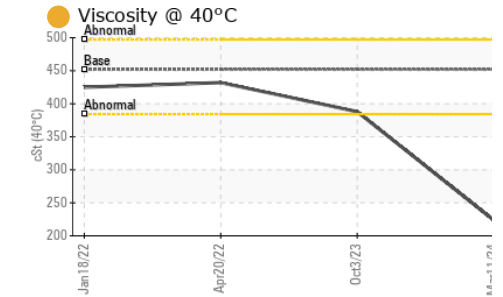
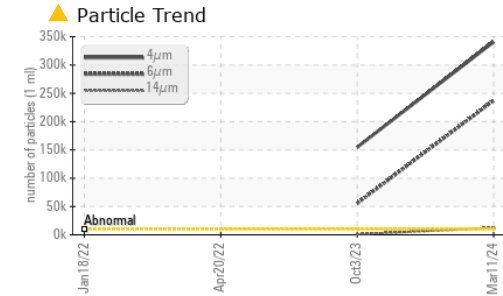
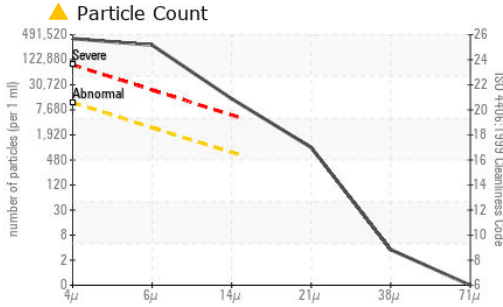
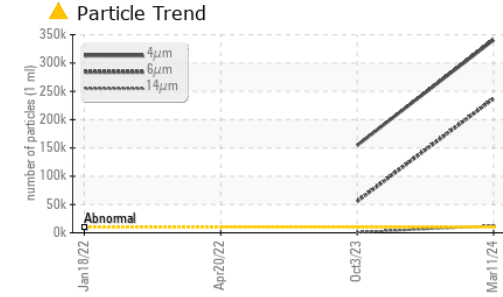
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >60	13	7	5
Sodium	ppm ASTM D5185m	0	0	3
Potassium	ppm ASTM D5185m >20	2	0	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 340943	▲ 154736	---
Particles >6µm	ASTM D7647 >2500	▲ 237305	▲ 55683	---
Particles >14µm	ASTM D7647 >640	▲ 12355	▲ 778	---
Particles >21µm	ASTM D7647 >160	▲ 840	▲ 89	---
Particles >38µm	ASTM D7647 >40	3	1	---
Particles >71µm	ASTM D7647 >10	0	0	---
Oil Cleanliness	ISO 4406 (c) >20/18/16	▲ 26/25/21	▲ 24/23/17	---

OIL ANALYSIS REPORT

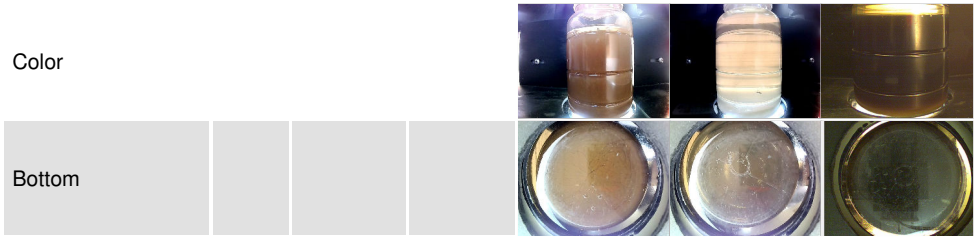


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.5	0.53	0.34	---

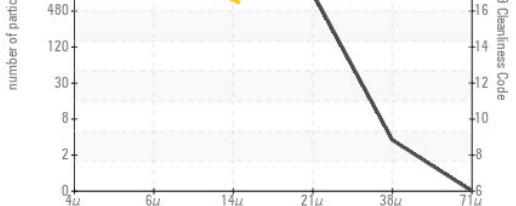
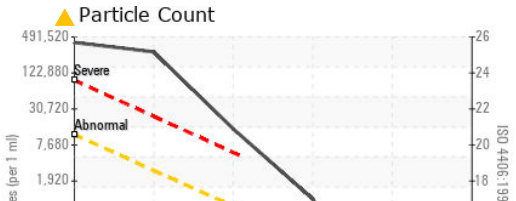
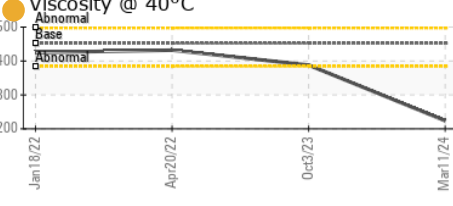
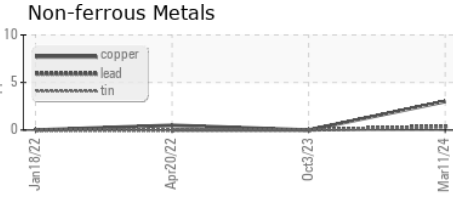
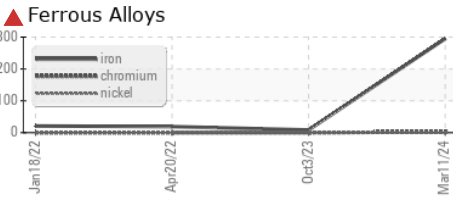
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	223.8	388	432

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116655 **Received** : 29 Mar 2024
Lab Number : 06133273 **Tested** : 05 Apr 2024
Unique Number : 10952738 **Diagnosed** : 05 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

KraftHeinz - Kirksville - Plant 8333 PCA
 2504 INDUSTRIAL DR
 KIRKSVILLE, MO
 US 63501

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