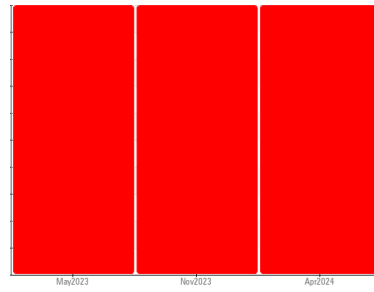


PROBLEM SUMMARY

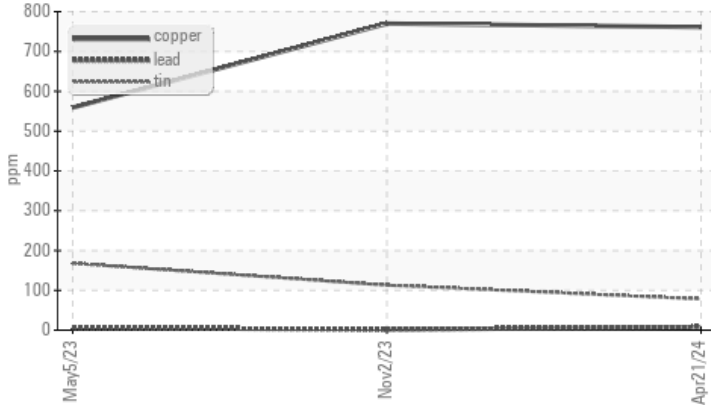
Area
PHASE 2 PH 2
 Machine Id
HT 24
 Component
Agitator Gearbox
 Fluid
PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)

Sample Rating Trend

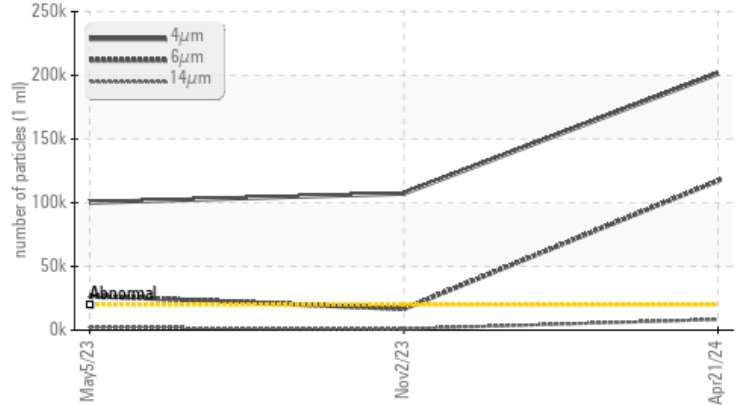


COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Particle Trend



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.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
Copper	ppm	ASTM D5185m	>50	▲ 761	▲ 770	▲ 559
Tin	ppm	ASTM D5185m	>10	▲ 78	▲ 113	▲ 168
Particles >4µm		ASTM D7647	>20000	▲ 201339	▲ 107275	▲ 100243
Particles >6µm		ASTM D7647	>5000	▲ 117357	▲ 16710	▲ 26817
Particles >14µm		ASTM D7647	>640	▲ 8375	▲ 1065	▲ 2099
Particles >21µm		ASTM D7647	>160	▲ 1751	▲ 346	▲ 529
Particles >38µm		ASTM D7647	>40	▲ 61	17	68
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 25/24/20	▲ 24/21/17	▲ 24/22/18

Customer Id: KRAMASIOW
 Sample No.: PCA0119926
 Lab Number: 06160332
 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

WEAR



02 Nov 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](#)



WEAR



05 May 2023 Diag: Doug Bogart

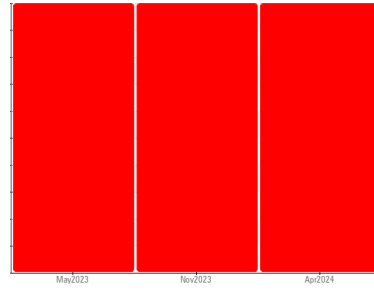
We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is a high amount of particulates present in the oil. The AN level is acceptable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

[view report](#)



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
PHASE 2 PH 2
Machine Id
HT 24
Component
Agitator Gearbox
Fluid
PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)

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.

Wear

Bearing and/or gear wear is indicated.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0119926	USP0003064	USP248901
Sample Date	Client Info		21 Apr 2024	02 Nov 2023	05 May 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			SEVERE	SEVERE	SEVERE

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	13	12	15
Chromium	ppm	ASTM D5185m >10	0	0	<1
Nickel	ppm	ASTM D5185m >10	1	2	1
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	<1	1	2
Lead	ppm	ASTM D5185m >100	8	2	6
Copper	ppm	ASTM D5185m >50	▲ 761	▲ 770	▲ 559
Tin	ppm	ASTM D5185m >10	▲ 78	▲ 113	▲ 168
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	21	29	26
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	3	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	<1	1	10
Calcium	ppm	ASTM D5185m	2	2	0
Phosphorus	ppm	ASTM D5185m	511	405	509
Zinc	ppm	ASTM D5185m	17	18	33
Sulfur	ppm	ASTM D5185m	9945	18955	25056

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	10	11	3
Sodium	ppm	ASTM D5185m	<1	0	<1
Potassium	ppm	ASTM D5185m >20	<1	1	4

FLUID CLEANLINESS

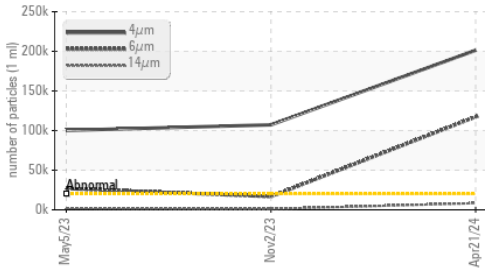
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 201339	▲ 107275	▲ 100243
Particles >6µm	ASTM D7647	>5000	▲ 117357	▲ 16710	▲ 26817
Particles >14µm	ASTM D7647	>640	▲ 8375	▲ 1065	▲ 2099
Particles >21µm	ASTM D7647	>160	▲ 1751	▲ 346	▲ 529
Particles >38µm	ASTM D7647	>40	▲ 61	17	● 68
Particles >71µm	ASTM D7647	>10	6	1	6
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 25/24/20	▲ 24/21/17	▲ 24/22/18

FLUID DEGRADATION

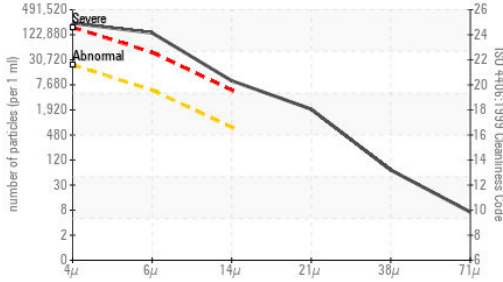
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.42	1.39	1.73	2.54

OIL ANALYSIS REPORT

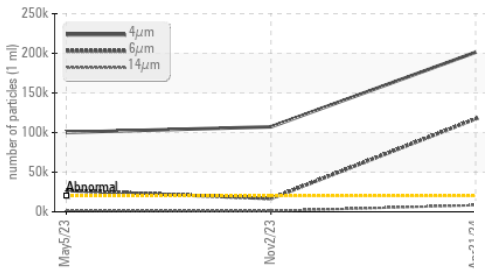
Particle Trend



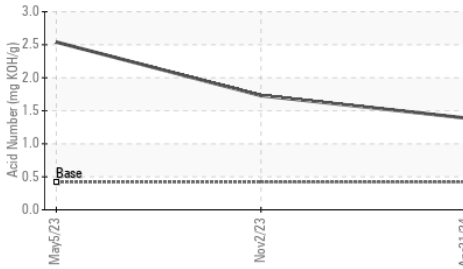
Particle Count



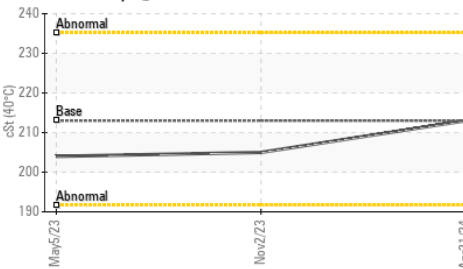
Particle Trend



Acid Number



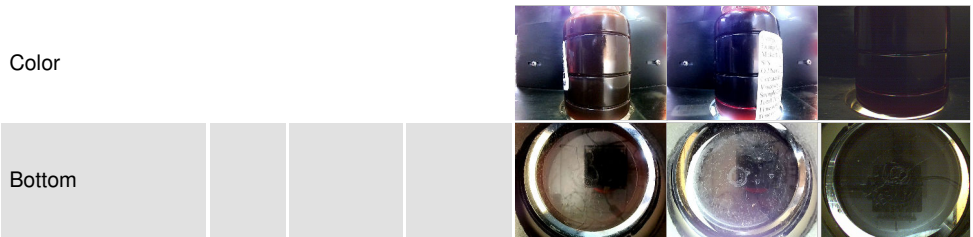
Viscosity @ 40°C



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

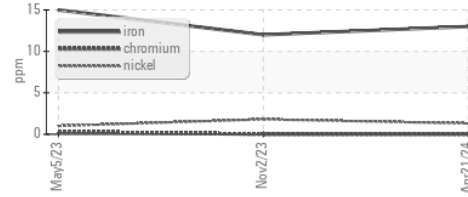
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 213	213	205	204

SAMPLE IMAGES	method	limit/base	current	history1	history2
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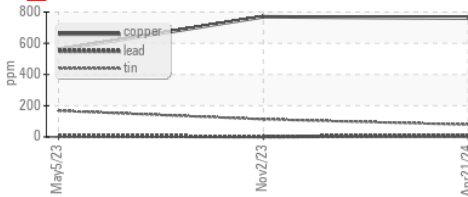


GRAPHS

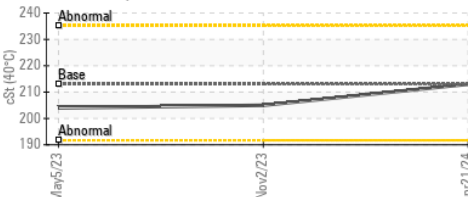
Ferrous Alloys



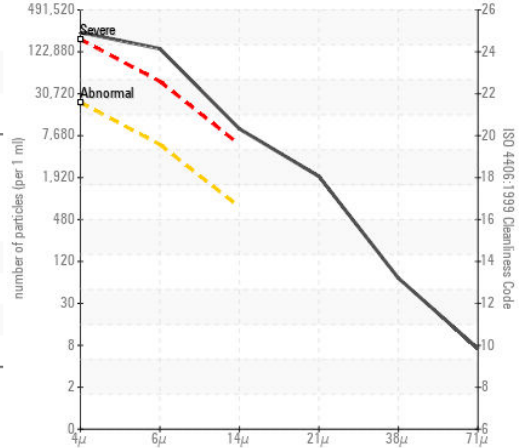
Non-ferrous Metals



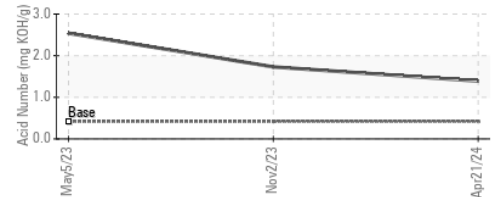
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0119926

Lab Number : 06160332

Unique Number : 10995755

Test Package : IND 2 (Additional Tests: PrtCount)

Received : 25 Apr 2024

Tested : 26 Apr 2024

Diagnosed : 30 Apr 2024 - Jonathan Hester

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