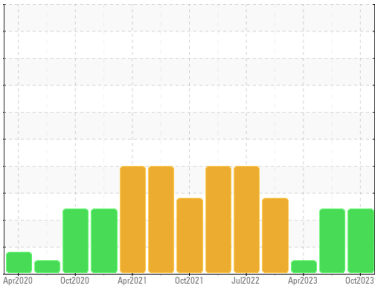
OIL DIAGNOSTICS

PROBLEM SUMMARY

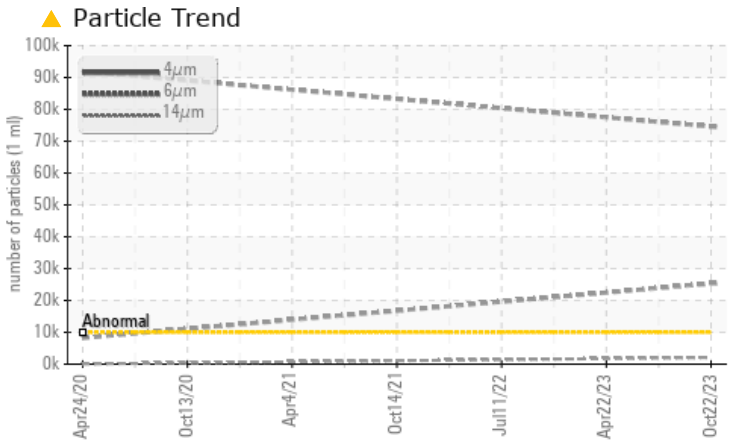
Sample Rating Trend



ISO

Area
[98558972]
Machine Id
KR-GR-001553-SOUTH - 15000 MIXER (S/N MIX C - 11513064)
Component
Gearbox
Fluid
PETRO CANADA 220 (50 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	NORMAL
Particles >4µm		ASTM D7647	>10000	▲ **74595**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **25315**	---	---
Particles >14µm		ASTM D7647	>640	▲ **2081**	---	---
Particles >21µm		ASTM D7647	>160	▲ **534**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ **23/22/18**	---	---
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE

Customer Id: KRAKIR
Sample No.: PCA0108240
Lab Number: 05994322
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

31 Jul 2023 Diag: Doug Bogart

WATER

We advise that you check for the source of water entry. 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 AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

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22 Apr 2023 Diag: Angela Borella

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

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14 Oct 2022 Diag: Doug Bogart

WATER

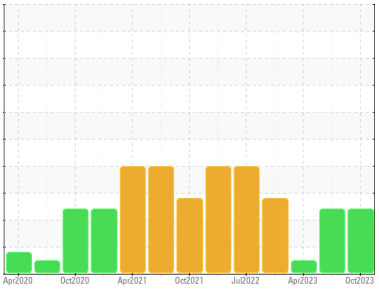
We advise that you check for the source of water entry. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate concentration of water present in the oil. The oil viscosity is higher than normal. Confirm oil type.

view report

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
[98558972]
Machine Id
KR-GR-001553-SOUTH - 15000 MIXER (S/N MIX C - 11513064)
Component
Gearbox
Fluid
PETRO CANADA 220 (50 QTS)

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 particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0108240**	PCA0103226	PCA0093102
Sample Date		Client Info		**22 Oct 2023**	31 Jul 2023	22 Apr 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				**ABNORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**3**	<1	8
Chromium	ppm	ASTM D5185m	>15	**<1**	1	0
Nickel	ppm	ASTM D5185m	>15	**0**	1	0
Titanium	ppm	ASTM D5185m		**0**	1	<1
Silver	ppm	ASTM D5185m		**0**	3	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	0	0
Lead	ppm	ASTM D5185m	>100	**0**	8	0
Copper	ppm	ASTM D5185m	>200	**<1**	2	0
Tin	ppm	ASTM D5185m	>25	**<1**	2	0
Vanadium	ppm	ASTM D5185m		**0**	2	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	2	<1
Barium	ppm	ASTM D5185m		**19**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	1	7
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	20	<1
Calcium	ppm	ASTM D5185m		**2**	0	9
Phosphorus	ppm	ASTM D5185m		**429**	224	418
Zinc	ppm	ASTM D5185m		**24**	0	6
Sulfur	ppm	ASTM D5185m		**1200**	925	995

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**2**	3	2
Sodium	ppm	ASTM D5185m		**1**	43	<1
Potassium	ppm	ASTM D5185m	>20	**<1**	100	2

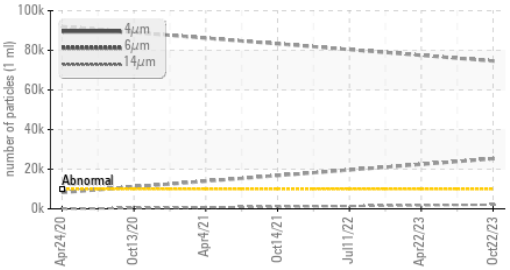
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **74595**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **25315**	---	---
Particles >14µm		ASTM D7647	>640	▲ **2081**	---	---
Particles >21µm		ASTM D7647	>160	▲ **534**	---	---
Particles >38µm		ASTM D7647	>40	**23**	---	---
Particles >71µm		ASTM D7647	>10	**4**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ **23/22/18**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.44**	0.51	---

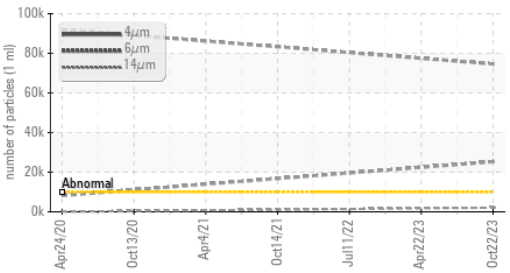
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

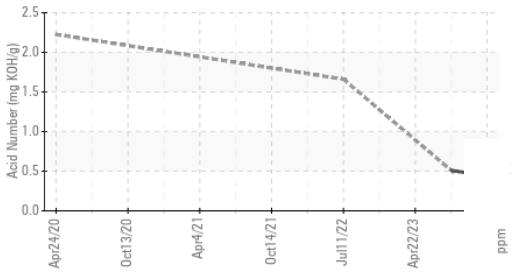
Particle Trend



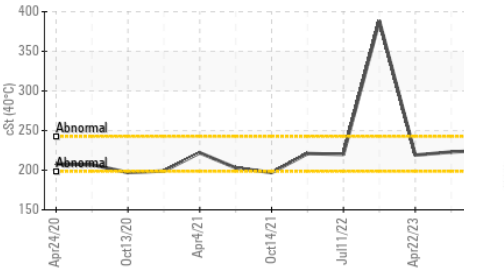
Particle Trend



Acid Number

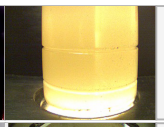
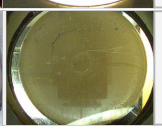


Viscosity @ 40°C



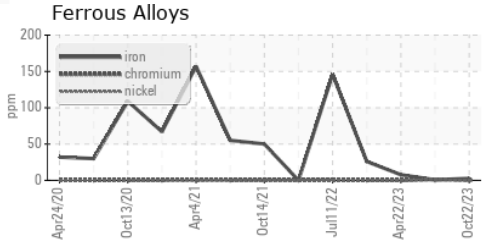
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	▲ HAZY	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	0.2%	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**225**	223	219

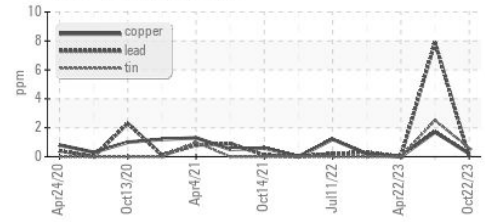
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

GRAPHS

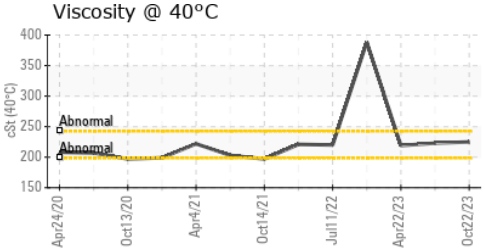
Ferrous Alloys



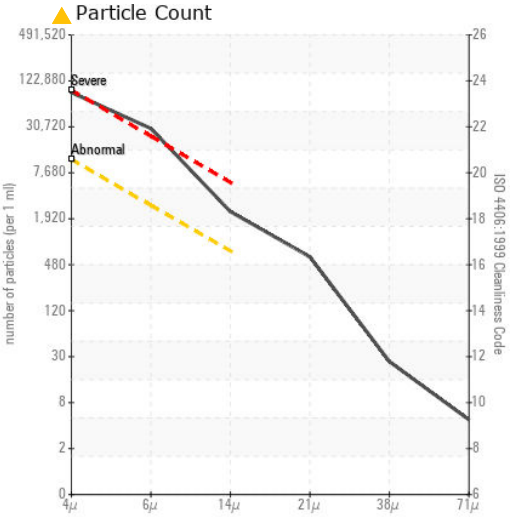
Non-ferrous Metals



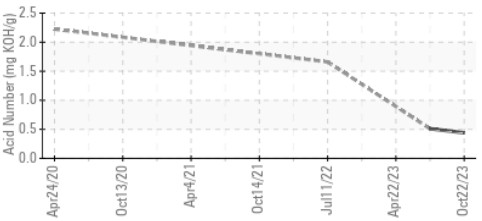
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108240 **Received** : 31 Oct 2023
Lab Number : 05994322 **Diagnosed** : 02 Nov 2023
Unique Number : 10722682 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: PrtCount)

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)

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