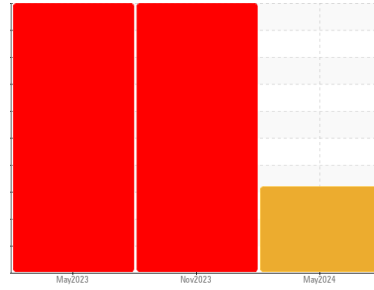


# OIL ANALYSIS REPORT

Area  
**PHASE 2 PH 2**  
 Machine Id  
**HT 25**  
 Component  
**Agitator Gearbox**  
 Fluid  
**PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- LTR)**

Sample Rating Trend



## DIAGNOSIS

- Recommendation**  
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- 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.
- Fluid Condition**  
The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0117325</b>	PCA0111053	USP248897
Sample Date	Client Info	<b>31 May 2024</b>	27 Nov 2023	26 May 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	N/A
Sample Status		<b>ABNORMAL</b>	SEVERE	SEVERE

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >150	<b>89</b>	▲ 364	▲ 378
Chromium	ppm ASTM D5185m >10	<b>&lt;1</b>	5	5
Nickel	ppm ASTM D5185m >10	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>0</b>	<1	0
Silver	ppm ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >25	<b>0</b>	1	<1
Lead	ppm ASTM D5185m >100	<b>0</b>	3	3
Copper	ppm ASTM D5185m >50	▲ <b>210</b>	▲ 826	▲ 722
Tin	ppm ASTM D5185m >10	▲ <b>12</b>	▲ 44	▲ 38
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>18</b>	47	23
Barium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185m	<b>4</b>	0	<1
Manganese	ppm ASTM D5185m	<b>1</b>	2	3
Magnesium	ppm ASTM D5185m	<b>0</b>	<1	1
Calcium	ppm ASTM D5185m	<b>3</b>	0	<1
Phosphorus	ppm ASTM D5185m	<b>624</b>	998	1077
Zinc	ppm ASTM D5185m	<b>15</b>	23	45
Sulfur	ppm ASTM D5185m	<b>6993</b>	21118	25928

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>10</b>	4	5
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	2	2

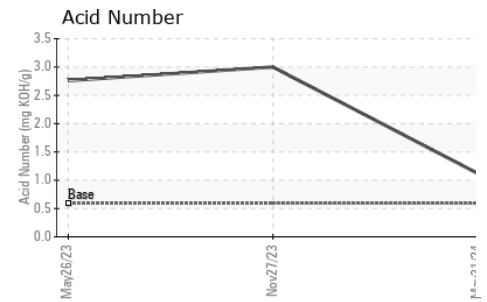
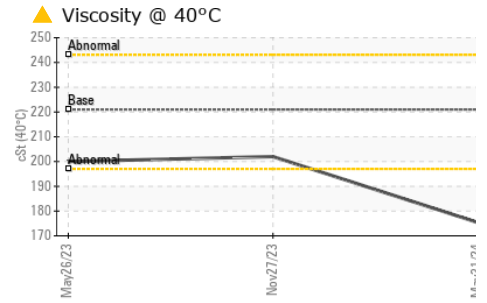
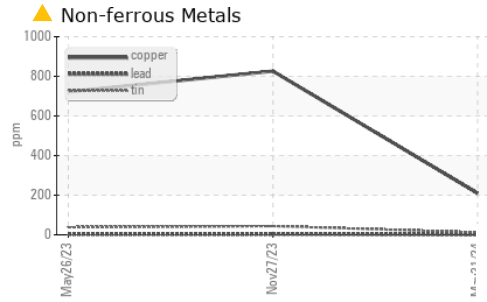
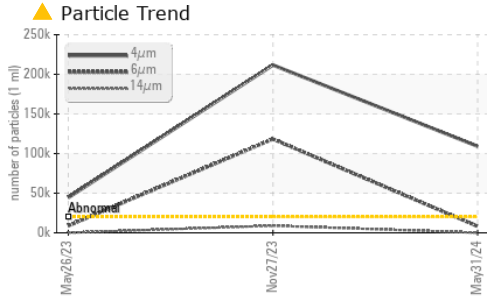
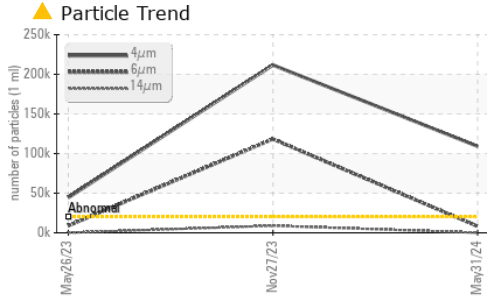
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ <b>109175</b>	▲ 211723	▲ 44391
Particles >6µm	ASTM D7647 >5000	● <b>8248</b>	▲ 118308	● 8987
Particles >14µm	ASTM D7647 >640	<b>141</b>	▲ 8926	48
Particles >21µm	ASTM D7647 >160	<b>33</b>	▲ 2007	5
Particles >38µm	ASTM D7647 >40	<b>1</b>	▲ 158	2
Particles >71µm	ASTM D7647 >10	<b>0</b>	▲ 25	1
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ <b>24/20/14</b>	▲ 25/24/20	▲ 23/20/13

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.59	<b>1.12</b>	▲ 3.00	2.76

# OIL ANALYSIS REPORT

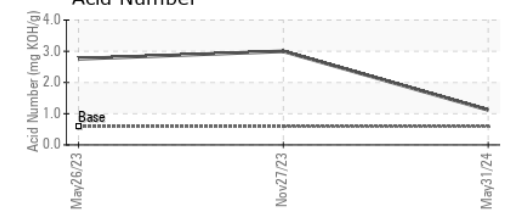
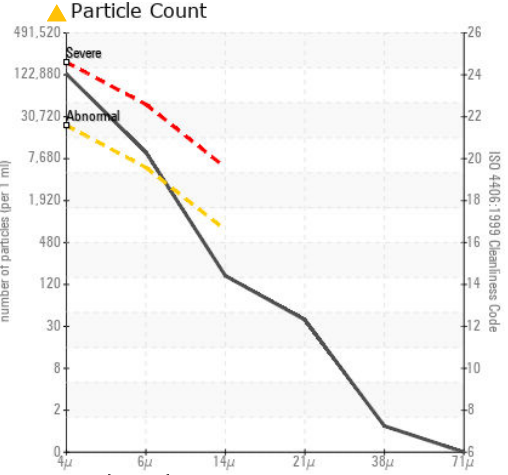
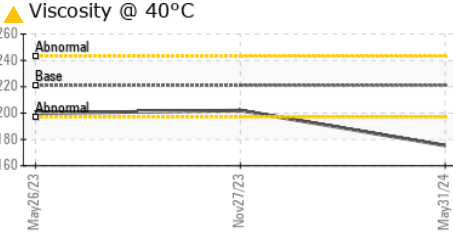
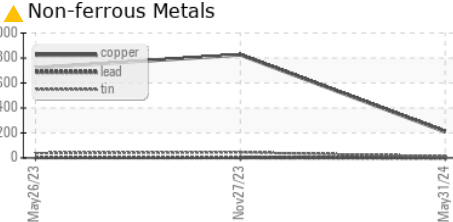
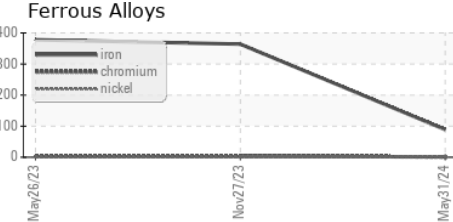


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	▲ 1.0

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 221	▲ 175.4	202	200

PARAMETER	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0117325 **Received** : 05 Jun 2024  
**Lab Number** : 06200114 **Tested** : 12 Jun 2024  
**Unique Number** : 11062237 **Diagnosed** : 13 Jun 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