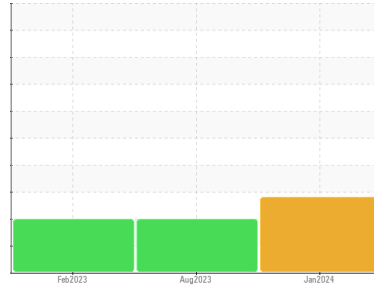


# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**PHASE 1 HTS**  
Machine Id  
**HT 04**

Component  
**Agitator Gearbox**  
Fluid  
**PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- LTR)**

## DIAGNOSIS

**Recommendation**  
No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**  
All component wear rates are normal.

**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. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0111038</b>	USP247594	USP247604
Sample Date	Client Info	<b>31 Jan 2024</b>	01 Aug 2023	13 Feb 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Chngd</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## 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>7</b>	31	58
Chromium	ppm ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m >10	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m	<b>0</b>	0	<1
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>	0	0
Copper	ppm ASTM D5185m >50	<b>14</b>	▲ 53	▲ 176
Tin	ppm ASTM D5185m >10	<b>2</b>	4	7
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>4</b>	27	138
Barium	ppm ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	<b>11</b>	27	52
Manganese	ppm ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m	<b>0</b>	5	4
Calcium	ppm ASTM D5185m	<b>41</b>	124	400
Phosphorus	ppm ASTM D5185m	<b>426</b>	563	804
Zinc	ppm ASTM D5185m	<b>30</b>	75	234
Sulfur	ppm ASTM D5185m	<b>1868</b>	7802	15808

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	▲ <b>65</b>	11	12
Sodium	ppm ASTM D5185m	<b>0</b>	3	6
Potassium	ppm ASTM D5185m >20	<b>2</b>	11	38

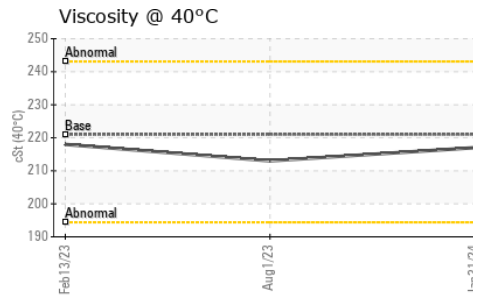
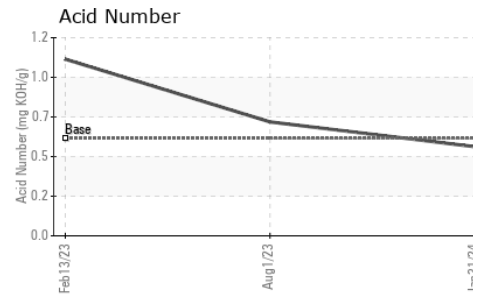
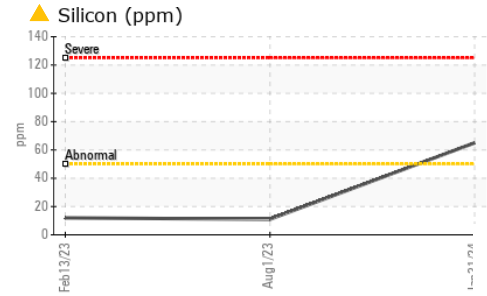
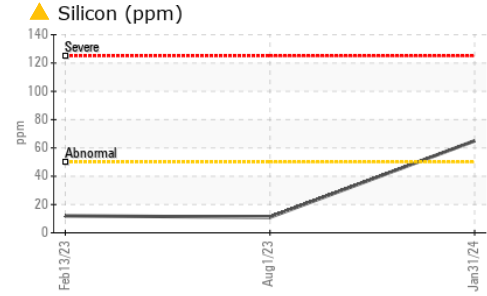
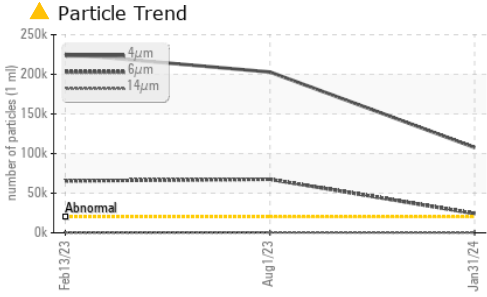
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ <b>107670</b>	▲ 202900	▲ 225614
Particles >6µm	ASTM D7647 >5000	▲ <b>24303</b>	▲ 67597	▲ 65523
Particles >14µm	ASTM D7647 >640	<b>186</b>	452	118
Particles >21µm	ASTM D7647 >160	<b>53</b>	78	17
Particles >38µm	ASTM D7647 >40	<b>4</b>	1	1
Particles >71µm	ASTM D7647 >10	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ <b>24/22/15</b>	▲ 25/23/16	▲ 25/23/14

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.59	<b>0.54</b>	0.69	1.07

# OIL ANALYSIS REPORT

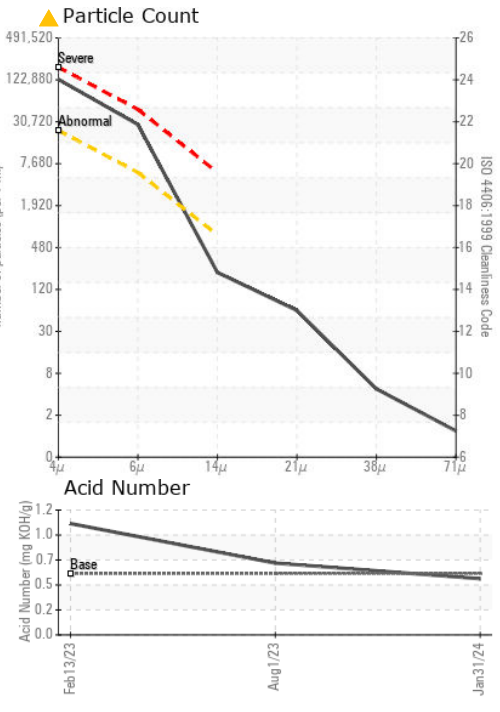
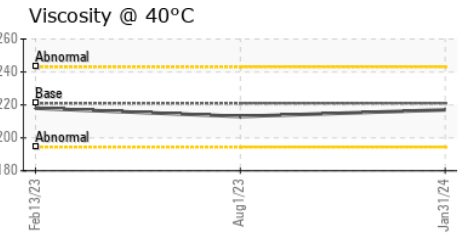
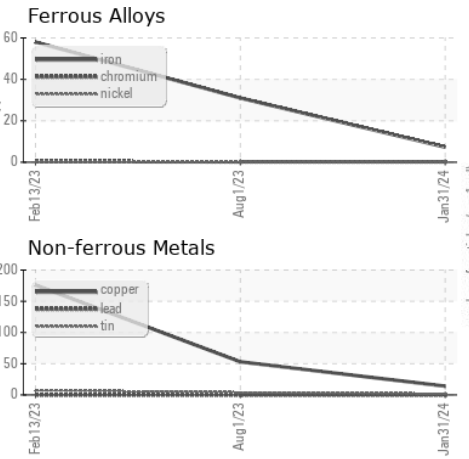


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

PARAMETER	method	limit/base	current	history1	history2
FLUID PROPERTIES					
Visc @ 40°C	cSt	ASTM D445 221	217	213	218

PARAMETER	method	limit/base	current	history1	history2
SAMPLE IMAGES					
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111038 **Received** : 05 Feb 2024  
**Lab Number** : 06079790 **Tested** : 06 Feb 2024  
**Unique Number** : 10861881 **Diagnosed** : 07 Feb 2024  
**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