



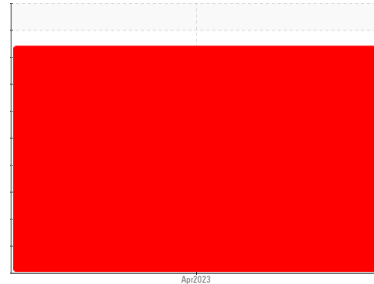
# PROBLEM SUMMARY

Sample Rating Trend

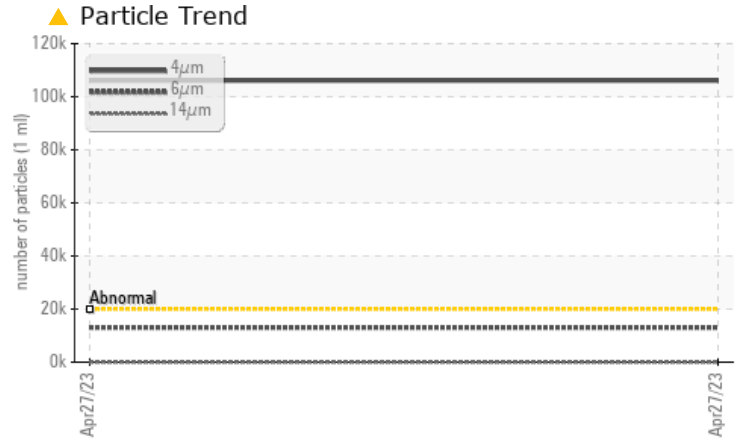
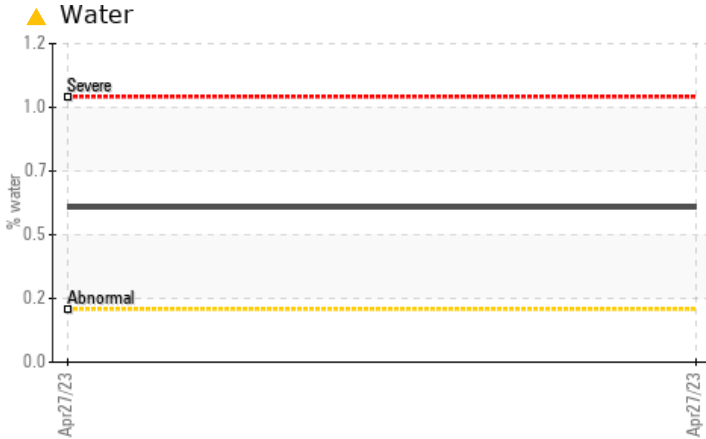
WATER



Area  
**BATCH SYSTEM 7**  
 Machine Id  
**BS7A HOMOGENIZER CRANKCASE**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Water	%	ASTM D6304	>0.2	▲ <b>0.583</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ <b>5830</b>	---	---
Particles >4µm		ASTM D7647	>20000	▲ <b>106086</b>	---	---
Particles >6µm		ASTM D7647	>5000	▲ <b>13030</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ <b>24/21/12</b>	---	---
Appearance	scalar	*Visual	NORML	▲ <b>HAZY</b>	---	---
Free Water	scalar	*Visual		◆ <b>10.0</b>	---	---

Customer Id: KRAMASIOW  
 Sample No.: USP248898  
 Lab Number: 05835336  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Other Action (see Note)	DONE	May 17 2023	?	No recommended actions

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area  
**BATCH SYSTEM 7**  
 Machine Id  
**BS7A HOMOGENIZER CRANKCASE**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)**



## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component and use off-line filtration to improve the cleanliness of the system fluid. 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. Excessive free water present. There is a moderate concentration of water 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		<b>USP248898</b>	---	---
Sample Date	Client Info		<b>27 Apr 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>3</b>	---	---
Chromium	ppm	ASTM D5185m >15	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m >15	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	---	---
Lead	ppm	ASTM D5185m >100	<b>15</b>	---	---
Copper	ppm	ASTM D5185m >200	<b>12</b>	---	---
Tin	ppm	ASTM D5185m >25	<b>4</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>5</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>1</b>	---	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>2</b>	---	---
Calcium	ppm	ASTM D5185m	<b>6</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>493</b>	---	---
Zinc	ppm	ASTM D5185m	<b>27</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>4394</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>3</b>	---	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304 >0.2	<b>▲ 0.583</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>▲ 5830</b>	---	---

## FLUID CLEANLINESS

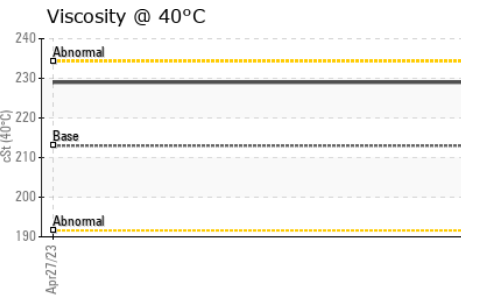
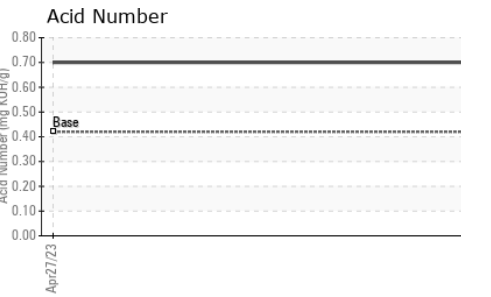
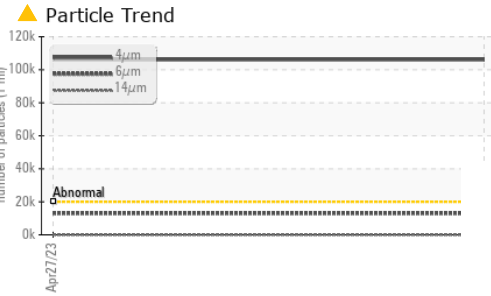
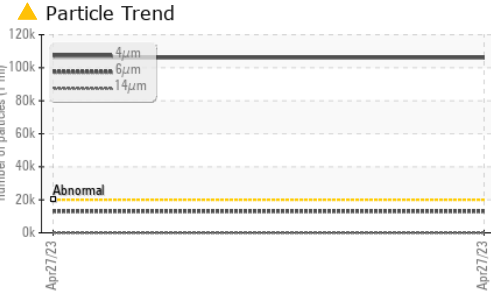
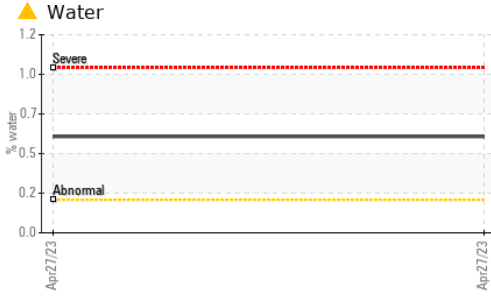
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 106086</b>	---	---
Particles >6µm	ASTM D7647	>5000	<b>▲ 13030</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>22</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>7</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>4</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>3</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 24/21/12</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.42	<b>0.70</b>	---	---



# OIL ANALYSIS REPORT



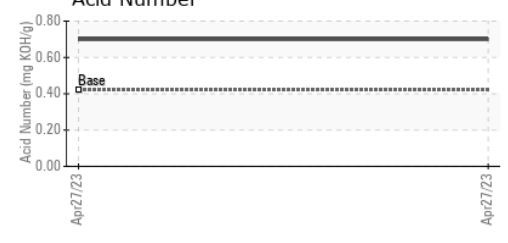
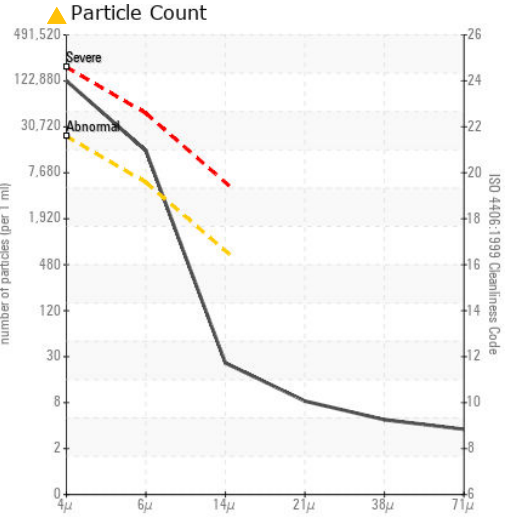
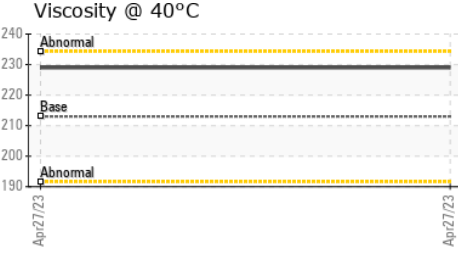
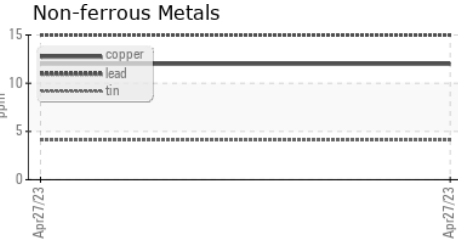
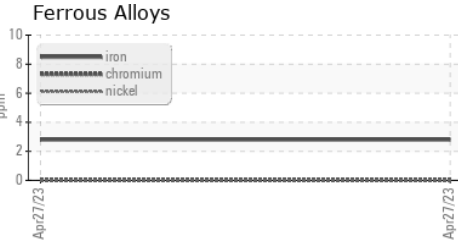
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	▲ HAZY	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---
Free Water	scalar	*Visual		10.0	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 213	229	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP248898 **Received** : 02 May 2023  
**Lab Number** : 05835336 **Diagnosed** : 04 May 2023  
**Unique Number** : 10454139 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**KraftHeinz - Mason City - Plant 8360**  
 1022 12TH ST  
 MASON CITY, IA  
 US 50401  
 Contact: Service Manager

Certificate L2367  
 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:  
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