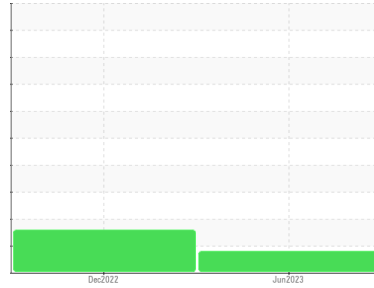




# PROBLEM SUMMARY

Sample Rating Trend



ISO



Machine Id

**HT 87**

Component

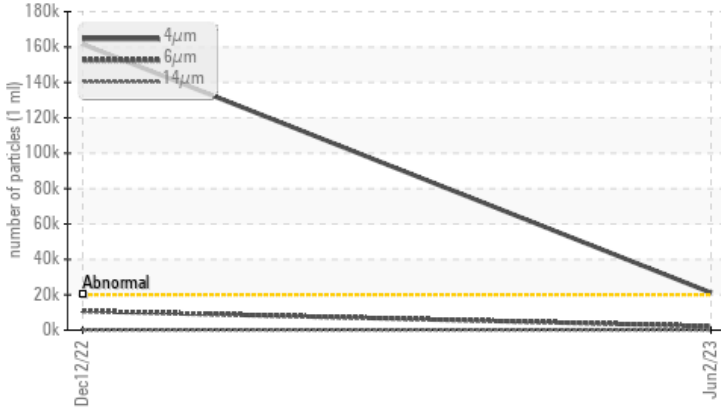
**Agitator Gearbox**

Fluid

**PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	ABNORMAL	---
Particles >4µm	ASTM D7647	>20000	▲ 21135	▲ 161629	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 22/18/14	▲ 25/21/14	---

Customer Id: KRAMASIOW

Sample No.: USP248905

Lab Number: 05866817

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
Other Action (see Note)	DONE	Jun 09 2023	?	No recommended actions

## HISTORICAL DIAGNOSIS

12 Dec 2022 Diag: Jonathan Hester

### VISCOSITY



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

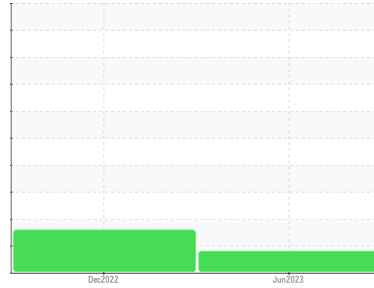
view report





# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id  
**HT 87**

Component  
**Agitator Gearbox**

Fluid  
**PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)**

### DIAGNOSIS

#### ▲ Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

#### 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>USP248905</b>	USP234439	---
Sample Date	Client Info			<b>02 Jun 2023</b>	12 Dec 2022	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>ATTENTION</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	<b>5</b>	25	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>0</b>	0	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m		<b>2</b>	6	---
Phosphorus	ppm	ASTM D5185m		<b>554</b>	893	---
Zinc	ppm	ASTM D5185m		<b>2</b>	4	---
Sulfur	ppm	ASTM D5185m		<b>702</b>	1264	---

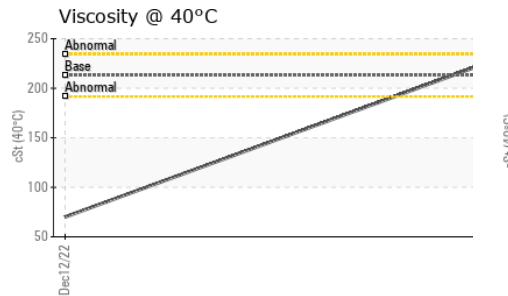
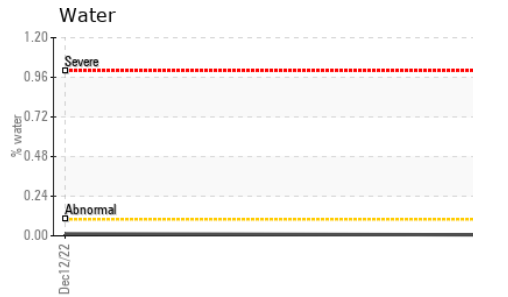
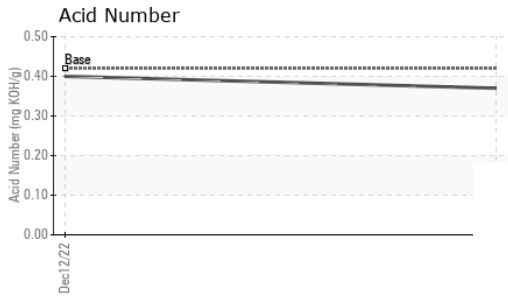
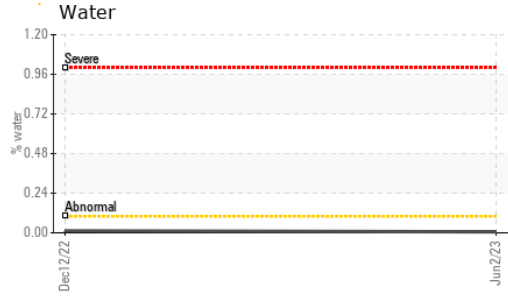
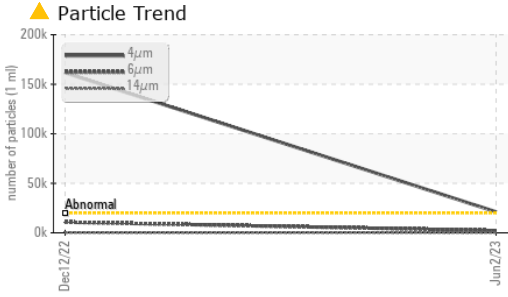
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>21</b>	4	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	---
Water	%	ASTM D6304	>0.1	<b>0.006</b>	0.012	---
ppm Water	ppm	ASTM D6304	>1000	<b>60.0</b>	122.8	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ <b>21135</b>	▲ 161629	---
Particles >6µm		ASTM D7647	>5000	<b>2200</b>	▲ 10779	---
Particles >14µm		ASTM D7647	>640	<b>127</b>	107	---
Particles >21µm		ASTM D7647	>160	<b>17</b>	18	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	1	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ <b>22/18/14</b>	▲ 25/21/14	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.42	<b>0.37</b>	0.40	---



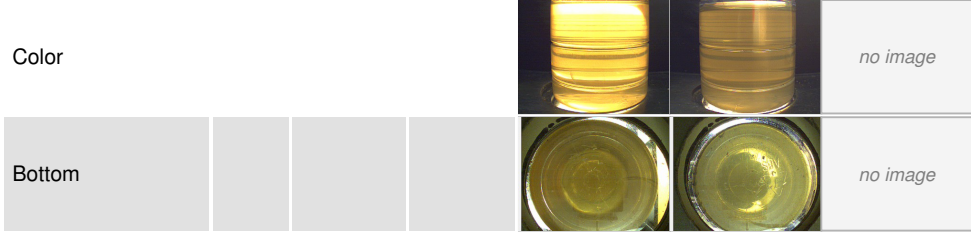
# OIL ANALYSIS REPORT



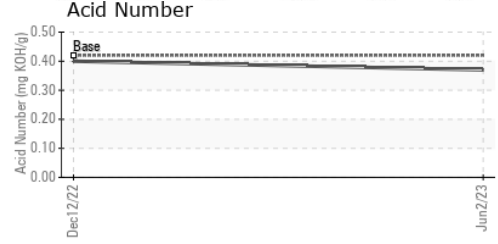
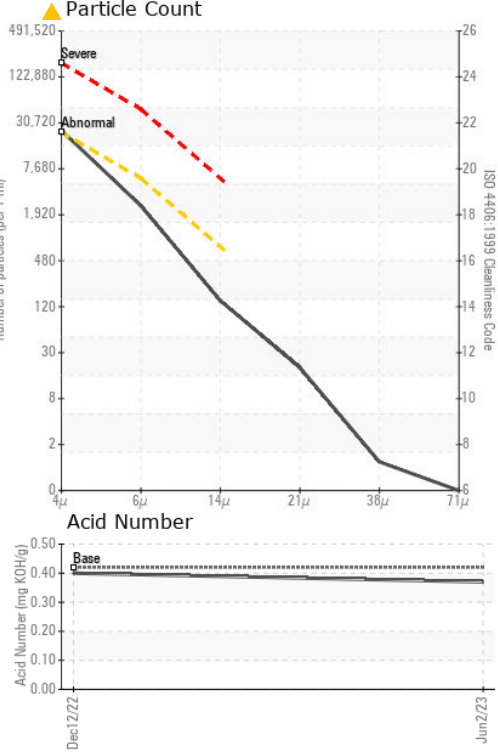
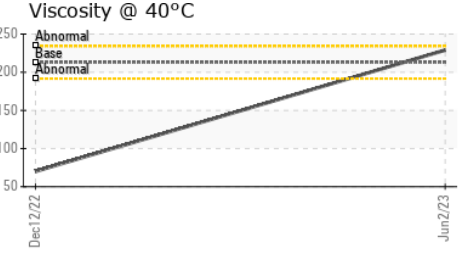
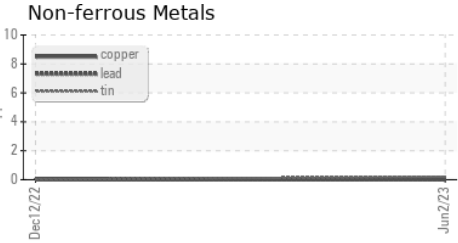
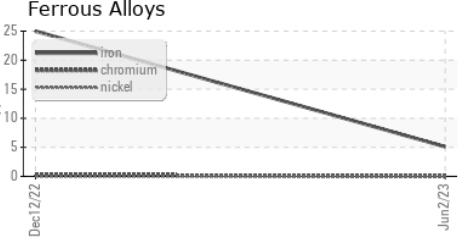
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213	229	▲ 70.05

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP248905 **Received** : 07 Jun 2023  
**Lab Number** : 05866817 **Diagnosed** : 08 Jun 2023  
**Unique Number** : 10506601 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**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)