

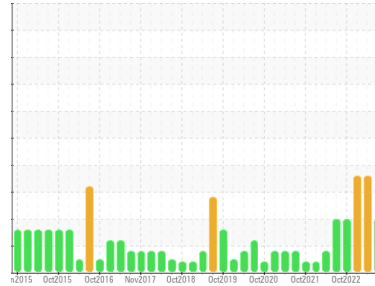


# PROBLEM SUMMARY

Sample Rating Trend

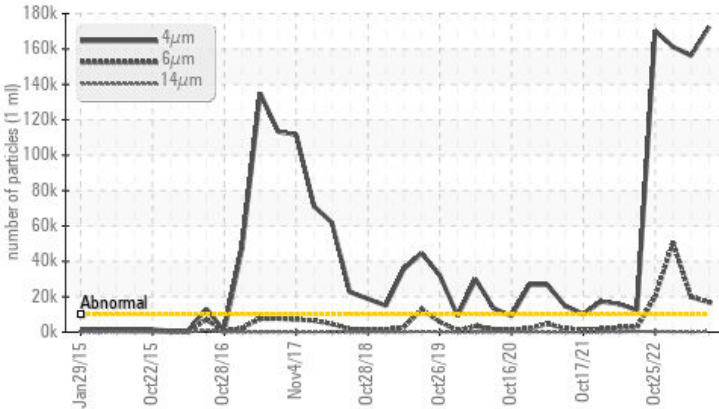
ISO

Area  
**RP-101 [10023334818]**  
 Machine Id  
**B57035 CAKE TRANSFER SCREW**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENDURATEX EP 320 (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## 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	ABNORMAL
Particles >4µm	ASTM D7647	>10000	▲ 172605	▲ 156269	▲ 161200
Particles >6µm	ASTM D7647	>2500	▲ 16881	▲ 19891	▲ 50407
Particles >14µm	ASTM D7647	>320	▲ 567	98	▲ 339
Particles >21µm	ASTM D7647	>80	▲ 142	21	▲ 81
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 25/21/16	▲ 24/21/14	▲ 25/23/16

Customer Id: HORAUS  
 Sample No.: WC0781450  
 Lab Number: 05904328  
 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
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

## HISTORICAL DIAGNOSIS

### 19 Apr 2023 Diag: Don Baldrige

#### WATER



We recommend you service the filters on this component if applicable. 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. Appearance is hazy. 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 suitable for further service.

view report



### 17 Jan 2023 Diag: Don Baldrige

#### WEAR



We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high amount of particulates present in the oil. Appearance is hazy. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



### 25 Oct 2022 Diag: Don Baldrige

#### ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

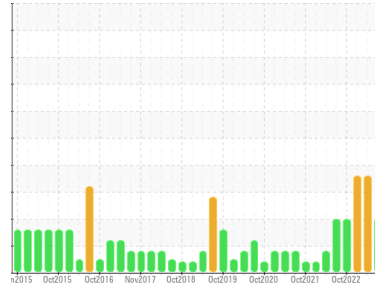
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**RP-101 [10023334818]**  
 Machine Id  
**B57035 CAKE TRANSFER SCREW**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENDURATEX EP 320 (--- GAL)**

## 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.

### 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>WC0781450</b>	WC0781493	WC0755349
Sample Date	Client Info		<b>16 Jul 2023</b>	19 Apr 2023	17 Jan 2023
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>167</b>	126	▲ 229
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	0	1
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >200	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m >25	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 55	<b>20</b>	27	33
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m 0	<b>3</b>	2	3
Magnesium	ppm	ASTM D5185m 0	<b>2</b>	2	2
Calcium	ppm	ASTM D5185m 0	<b>35</b>	23	33
Phosphorus	ppm	ASTM D5185m 240	<b>466</b>	395	381
Zinc	ppm	ASTM D5185m 1	<b>61</b>	46	85
Sulfur	ppm	ASTM D5185m 13700	<b>6762</b>	5259	4908

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>14</b>	10	33
Sodium	ppm	ASTM D5185m	<b>7</b>	<1	2
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	3

## FLUID CLEANLINESS

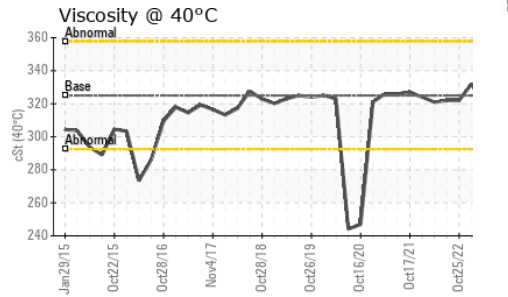
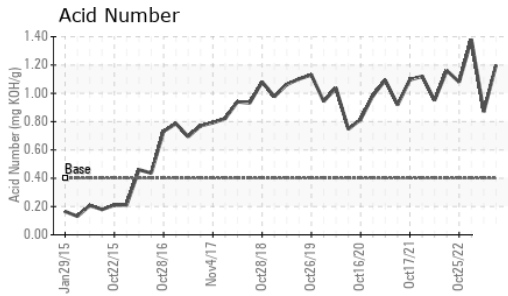
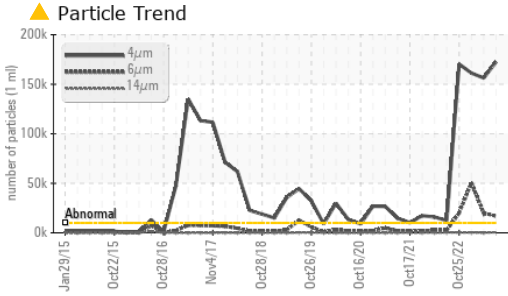
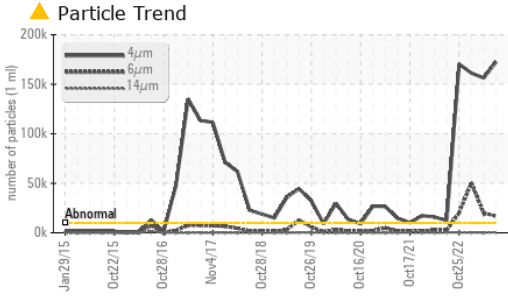
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ <b>172605</b>	▲ 156269	▲ 161200
Particles >6µm	ASTM D7647	>2500	▲ <b>16881</b>	▲ 19891	▲ 50407
Particles >14µm	ASTM D7647	>320	▲ <b>567</b>	98	▲ 339
Particles >21µm	ASTM D7647	>80	▲ <b>142</b>	21	▲ 81
Particles >38µm	ASTM D7647	>20	<b>5</b>	3	5
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	2
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ <b>25/21/16</b>	▲ 24/21/14	▲ 25/23/16

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>1.20</b>	0.87	1.38



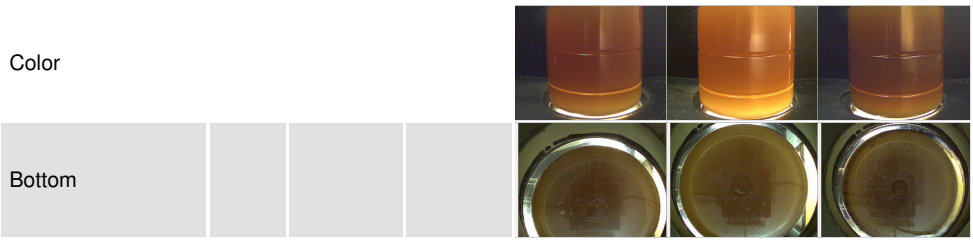
# OIL ANALYSIS REPORT



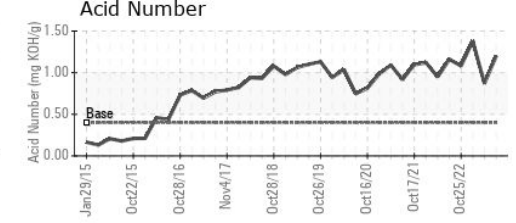
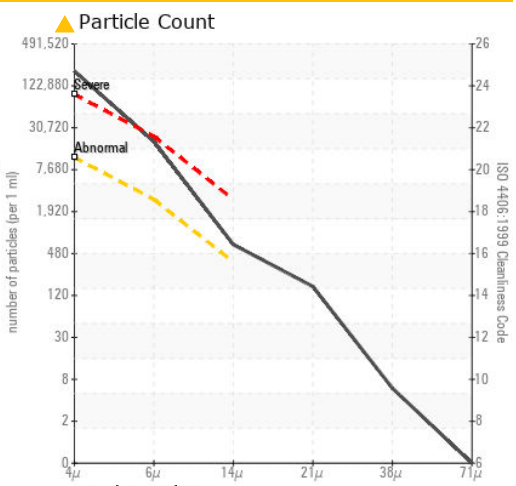
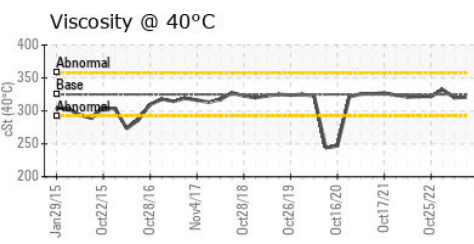
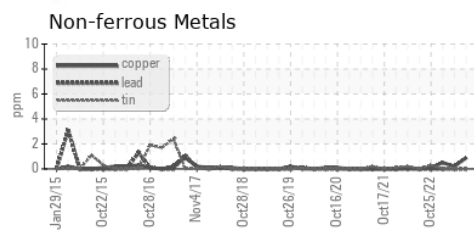
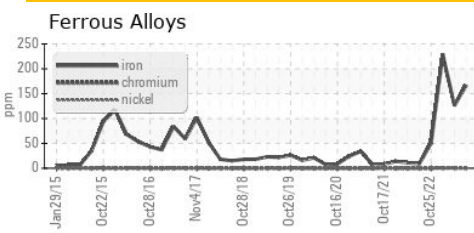
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 325	321	320	332

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0781450 **Received** : 21 Jul 2023  
**Lab Number** : 05904328 **Diagnosed** : 24 Jul 2023  
**Unique Number** : 10565684 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**HORMEL FOODS - AUSTIN**  
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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)