



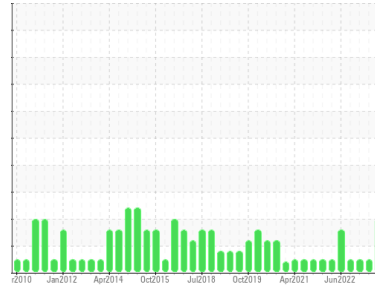
# PROBLEM SUMMARY

Sample Rating Trend

ISO

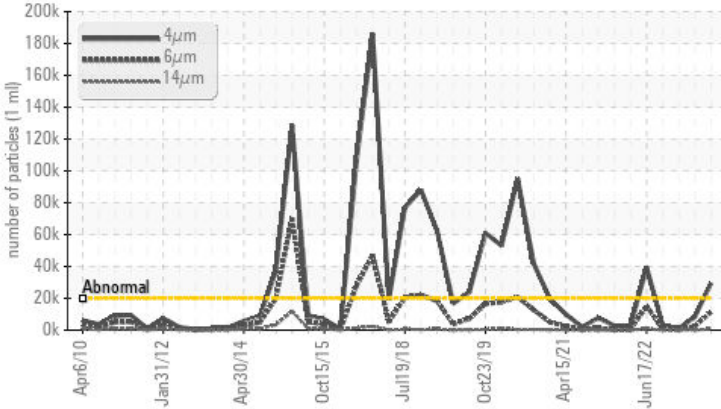


Machine Id  
**RECO HIGH STAGE 2 (S/N 16536 / 2749)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**PETRO CANADA REFLO XL SYNTHETIC BLEND (55 GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>20000	▲ 29501	8376	1000
Particles >6µm	ASTM D7647	>2500	▲ 11299	2492	313
Particles >14µm	ASTM D7647	>320	▲ 723	83	18
Particles >21µm	ASTM D7647	>80	▲ 114	10	4
Oil Cleanliness	ISO 4406 (c)	>21/18/15	▲ 22/21/17	20/18/14	17/15/11

Customer Id: MCCRIC  
 Sample No.: USP244638  
 Lab Number: 05904351  
 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.

## HISTORICAL DIAGNOSIS

### 31 Mar 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 01 Feb 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. An increase in the iron level is noted. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 16 Nov 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

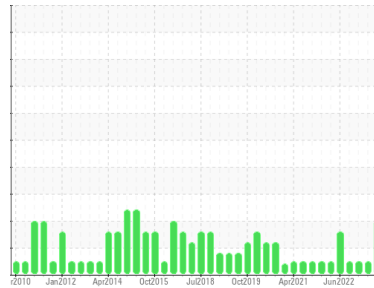




# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id  
**RECO HIGH STAGE 2 (S/N 16536 / 2749)**

Component  
**Refrigeration Compressor**

Fluid  
**PETRO CANADA REFLO XL SYNTHETIC BLEND (55 GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. 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>USP244638</b>	USP249747	USP245012
Sample Date	Client Info		<b>16 Jun 2023</b>	31 Mar 2023	01 Feb 2023
Machine Age	hrs	Client Info	<b>31626</b>	29792	28517
Oil Age	hrs	Client Info	<b>31524</b>	29690	28415
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	<b>49</b>	47	63
Chromium	ppm	ASTM D5185m >2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m >2	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >8	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m >4	<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	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>1</b>	<1	0
Calcium	ppm	ASTM D5185m	<b>7</b>	8	11
Phosphorus	ppm	ASTM D5185m	<b>3</b>	6	9
Zinc	ppm	ASTM D5185m	<b>&lt;1</b>	0	2
Sulfur	ppm	ASTM D5185m	<b>1596</b>	1278	1599

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	2
Sodium	ppm	ASTM D5185m	<b>1</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Water	%	ASTM D6304 >0.01	<b>0.004</b>	0.002	0.002
ppm Water	ppm	ASTM D6304 >100	<b>45.6</b>	24.4	17.6

## FLUID CLEANLINESS

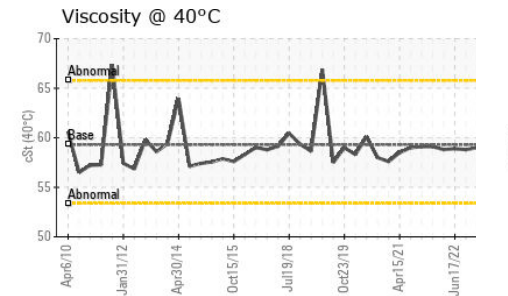
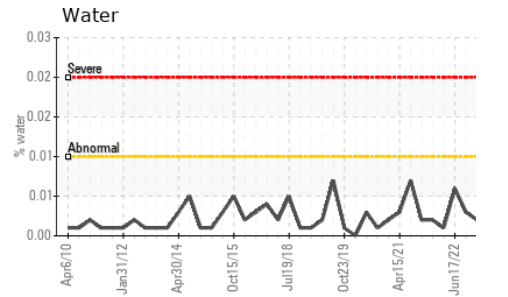
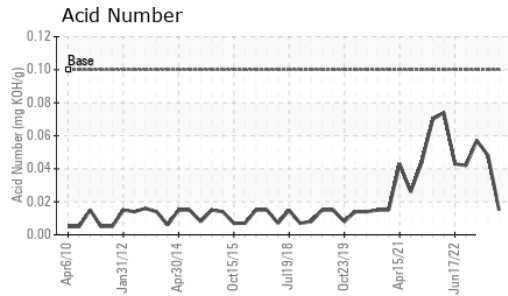
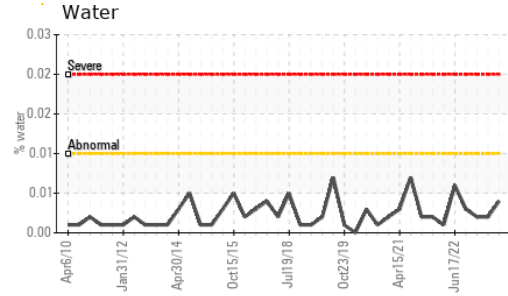
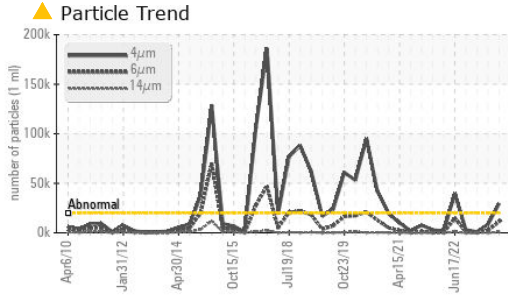
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 29501</b>	8376	1000
Particles >6µm	ASTM D7647	>2500	<b>▲ 11299</b>	2492	313
Particles >14µm	ASTM D7647	>320	<b>▲ 723</b>	83	18
Particles >21µm	ASTM D7647	>80	<b>▲ 114</b>	10	4
Particles >38µm	ASTM D7647	>20	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>21/18/15	<b>▲ 22/21/17</b>	20/18/14	17/15/11

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.1	<b>0.015</b>	0.048	0.057



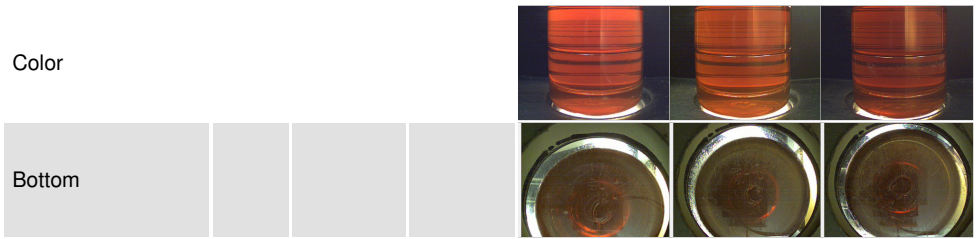
# OIL ANALYSIS REPORT



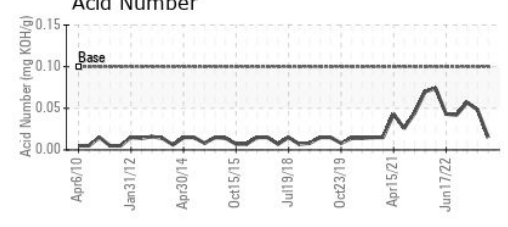
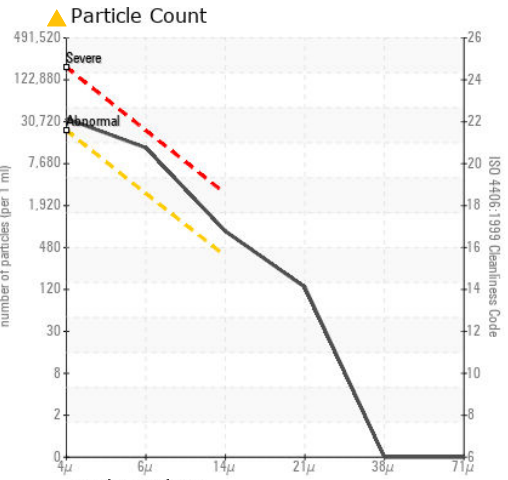
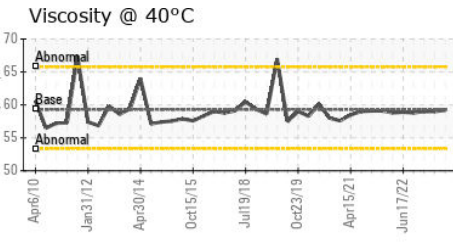
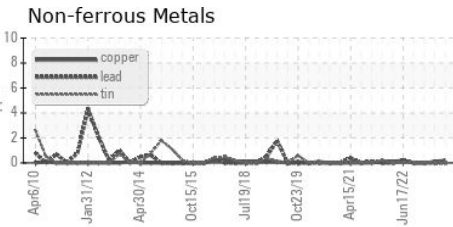
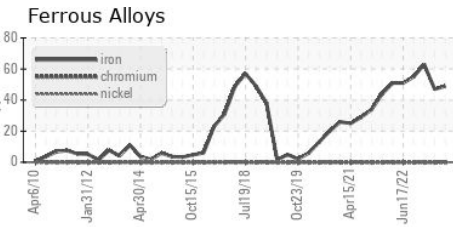
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	59.3	59.2	59.0

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP244638 **Received** : 21 Jul 2023  
**Lab Number** : 05904351 **Diagnosed** : 24 Jul 2023  
**Unique Number** : 10565707 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**MCCAIN FOODS - RICE LAKE**  
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 US 54868  
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 josh.miller@mccain.com  
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 F: (715)236-1542

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)