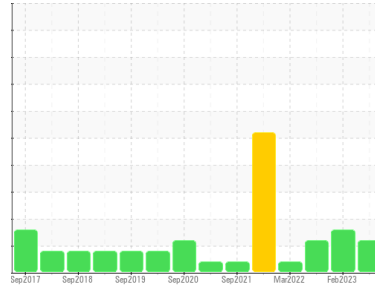




# PROBLEM SUMMARY

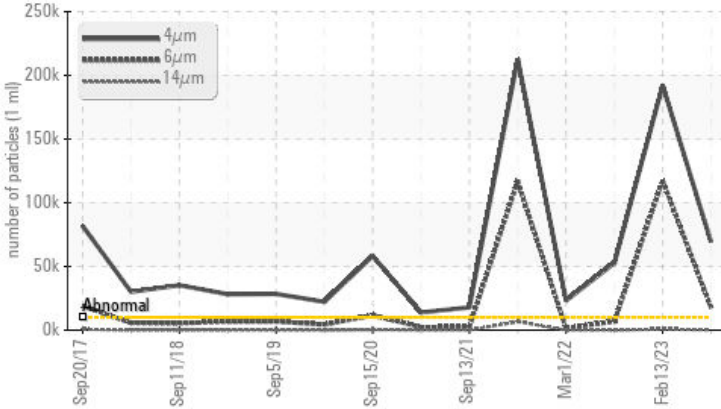
Sample Rating Trend



Area  
**PLANT 1 [906942395]**  
 Machine Id  
**RC-2 PLANT 1 (S/N MK6D/WRVI255145/439)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**PETRO CANADA REFLO XL SYNTHETIC BLEND (110 GAL)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>10000	▲ 69329	▲ 192154	▲ 52684
Particles >6µm	ASTM D7647	>2500	▲ 17938	▲ 117539	▲ 6741
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 23/21/15	▲ 25/24/17	▲ 23/20/12

Customer Id: MCCEASPCA  
 Sample No.: PCA0068397  
 Lab Number: 05919346  
 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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 13 Feb 2023 Diag: Don Baldrige

ISO



We recommend you service the filters on this component. 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 suitable for further service.

view report



### 14 Sep 2022 Diag: Don Baldrige

ISO



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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 01 Mar 2022 Diag: Don Baldrige

ISO

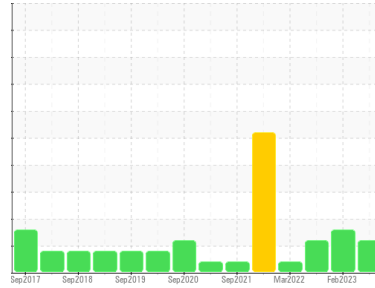


The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Area  
**PLANT 1 [906942395]**  
 Machine Id  
**RC-2 PLANT 1 (S/N MK6D/WRVI255145/439)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**PETRO CANADA REFLO XL SYNTHETIC BLEND (110 GAL)**



## 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.

### 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>PCA0068397</b>	PCA0071495	PCA0060094
Sample Date	Client Info	<b>25 Jul 2023</b>	13 Feb 2023	14 Sep 2022
Machine Age	hrs	<b>6647</b>	15330	15175
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >8	<b>1</b>	5	<1
Chromium ppm	ASTM D5185m >2	<b>0</b>	0	0
Nickel ppm	ASTM D5185m	<b>0</b>	0	0
Titanium ppm	ASTM D5185m	<b>0</b>	0	0
Silver ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum ppm	ASTM D5185m >3	<b>0</b>	<1	<1
Lead ppm	ASTM D5185m >2	<b>0</b>	<1	0
Copper ppm	ASTM D5185m >8	<b>0</b>	0	0
Tin ppm	ASTM D5185m >4	<b>0</b>	0	0
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>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>0</b>	0	0
Magnesium ppm	ASTM D5185m	<b>0</b>	0	0
Calcium ppm	ASTM D5185m	<b>0</b>	0	0
Phosphorus ppm	ASTM D5185m	<b>0</b>	3	0
Zinc ppm	ASTM D5185m	<b>0</b>	0	0
Sulfur ppm	ASTM D5185m	<b>1298</b>	1045	1242

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	<b>0</b>	<1	0
Sodium ppm	ASTM D5185m	<b>0</b>	0	0
Potassium ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Water %	ASTM D6304 >0.01	<b>0.004</b>	0.003	0.002
ppm Water	ASTM D6304 >100	<b>42.9</b>	30.3	25.0

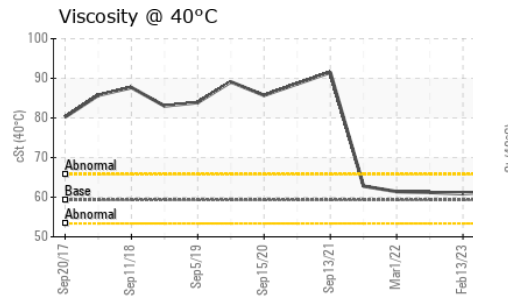
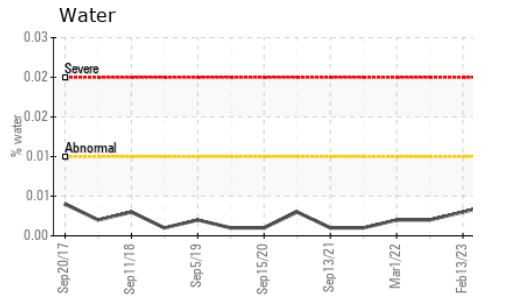
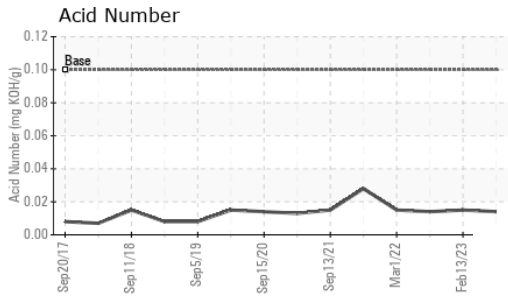
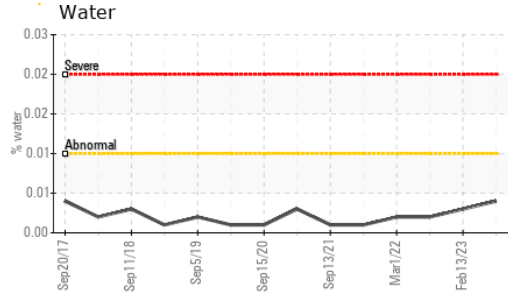
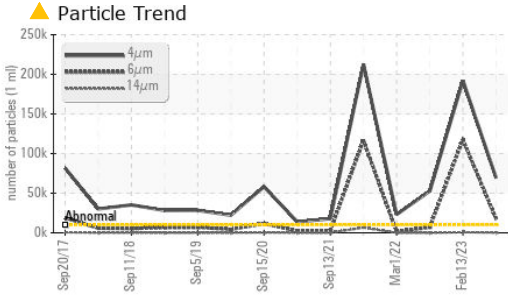
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 69329</b>	▲ 192154	▲ 52684
Particles >6µm	ASTM D7647 >2500	<b>▲ 17938</b>	▲ 117539	▲ 6741
Particles >14µm	ASTM D7647 >320	<b>199</b>	▲ 798	37
Particles >21µm	ASTM D7647 >80	<b>15</b>	18	3
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) >20/18/15	<b>▲ 23/21/15</b>	▲ 25/24/17	▲ 23/20/12

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974 0.1	<b>0.014</b>	0.015	0.014

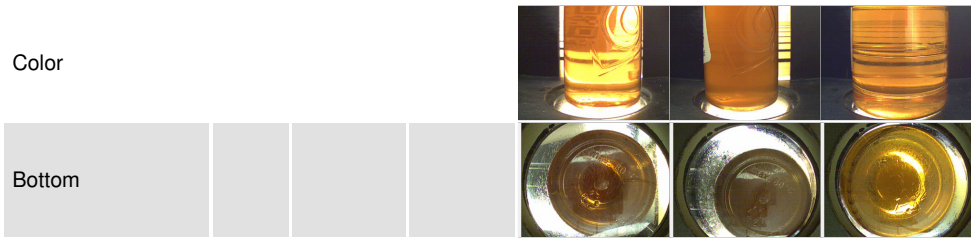
# OIL ANALYSIS REPORT



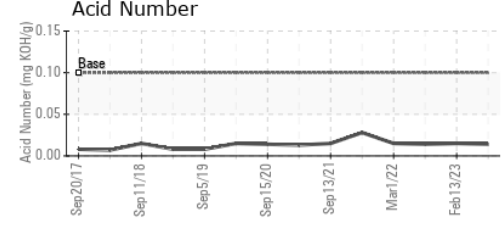
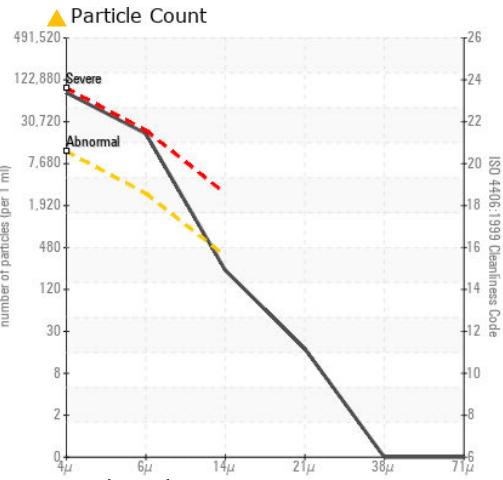
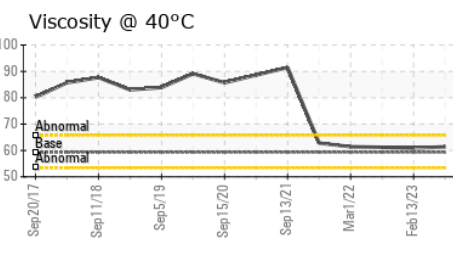
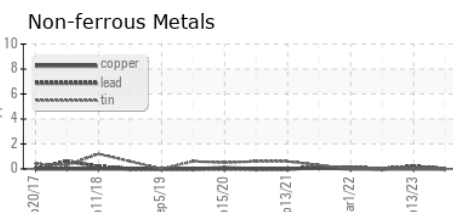
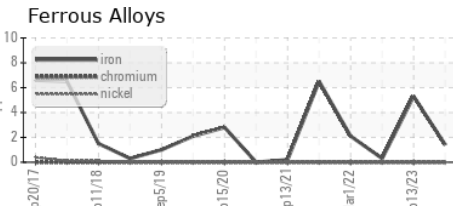
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	61.4	60.9

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0068397 **Received** : 08 Aug 2023  
**Lab Number** : 05919346 **Diagnosed** : 09 Aug 2023  
**Unique Number** : 10591260 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**MCCAIN FOODS**  
 319 RICHARDSON RD  
 EASTON, ME  
 US 04740  
 Contact: ROCKY DEWITT  
 rocky.dewitt@mccain.com  
 T: (207)488-1251  
 F: (207)488-1249

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)