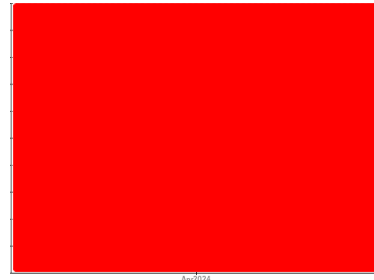




# PROBLEM SUMMARY

Sample Rating Trend



WEAR

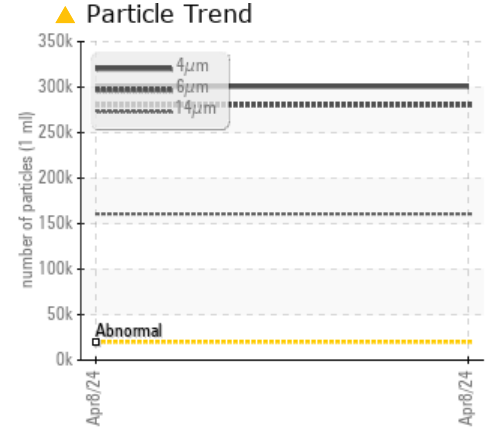
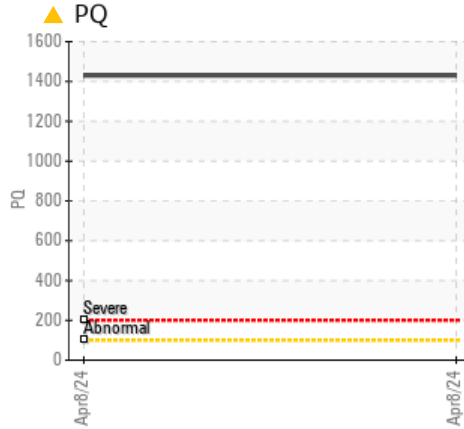
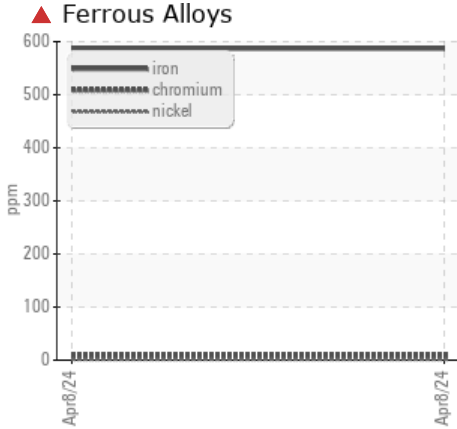


Machine Id  
**RV-170**

Component  
**Gearbox**

Fluid  
**PETRO CANADA SYNDURO SHB ISO 220 (4 LTR)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
PQ		ASTM D8184	▲ 1430	---	---
Iron	ppm	ASTM D5185m >200	▲ 587	---	---
Particles >4µm		ASTM D7647 >20000	▲ 300761	---	---
Particles >6µm		ASTM D7647 >5000	▲ 280346	---	---
Particles >14µm		ASTM D7647 >640	▲ 160667	---	---
Particles >21µm		ASTM D7647 >160	▲ 70811	---	---
Particles >38µm		ASTM D7647 >40	▲ 92	---	---
Oil Cleanliness		ISO 4406 (c) >21/19/16	▲ 25/25/25	---	---

Customer Id: MONHAL  
Sample No.: SBP0001772  
Lab Number: 06147340  
Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

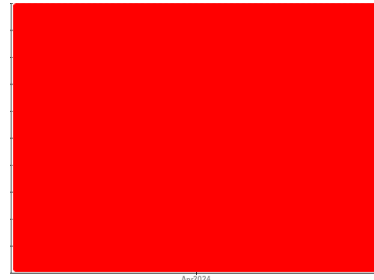
Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id  
**RV-170**

Component  
**Gearbox**

Fluid  
**PETRO CANADA SYNDURO SHB ISO 220 (4 LTR)**

## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### ▲ Wear

Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

### ▲ Contamination

There is a high amount of particulates present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>SBP0001772</b>	---	---
Sample Date	Client Info		<b>08 Apr 2024</b>	---	---
Machine Age	mths	Client Info	<b>0</b>	---	---
Oil Age	mths	Client Info	<b>6</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>▲ 1430</b>	---	---
Iron	ppm	ASTM D5185m >200	<b>▲ 587</b>	---	---
Chromium	ppm	ASTM D5185m >15	<b>9</b>	---	---
Nickel	ppm	ASTM D5185m >15	<b>1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>1</b>	---	---
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>1</b>	---	---
Lead	ppm	ASTM D5185m >100	<b>1</b>	---	---
Copper	ppm	ASTM D5185m >200	<b>1</b>	---	---
Tin	ppm	ASTM D5185m >25	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>64</b>	---	---
Barium	ppm	ASTM D5185m 5.0	<b>4</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>1</b>	---	---
Manganese	ppm	ASTM D5185m	<b>3</b>	---	---
Magnesium	ppm	ASTM D5185m 5.0	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185m 5.0	<b>11</b>	---	---
Phosphorus	ppm	ASTM D5185m 100	<b>280</b>	---	---
Zinc	ppm	ASTM D5185m 5.0	<b>8</b>	---	---
Sulfur	ppm	ASTM D5185m 1900	<b>6629</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>21</b>	---	---
Sodium	ppm	ASTM D5185m	<b>2</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	---	---
Water	%	ASTM D6304 >0.2	<b>0.009</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>95</b>	---	---

## FLUID CLEANLINESS

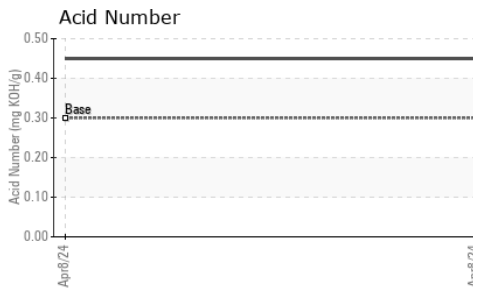
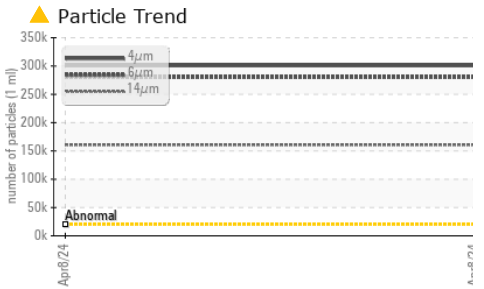
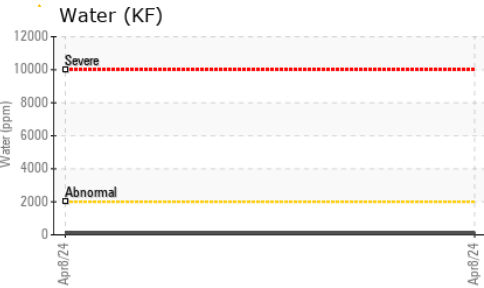
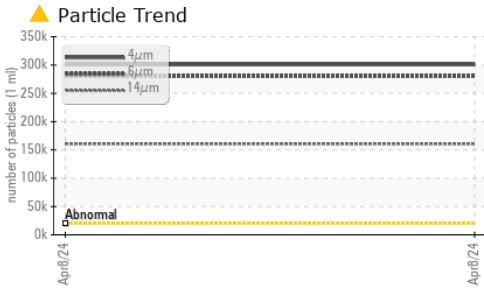
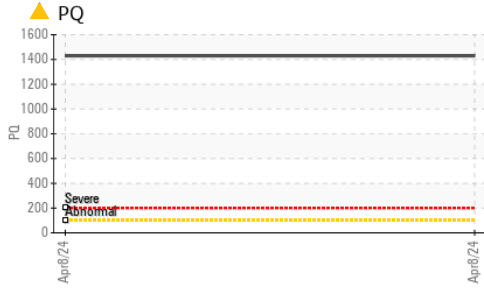
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 300761</b>	---	---
Particles >6µm	ASTM D7647	>5000	<b>▲ 280346</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>▲ 160667</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>▲ 70811</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>▲ 92</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 25/25/25</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.3	<b>0.45</b>	---	---



# OIL ANALYSIS REPORT



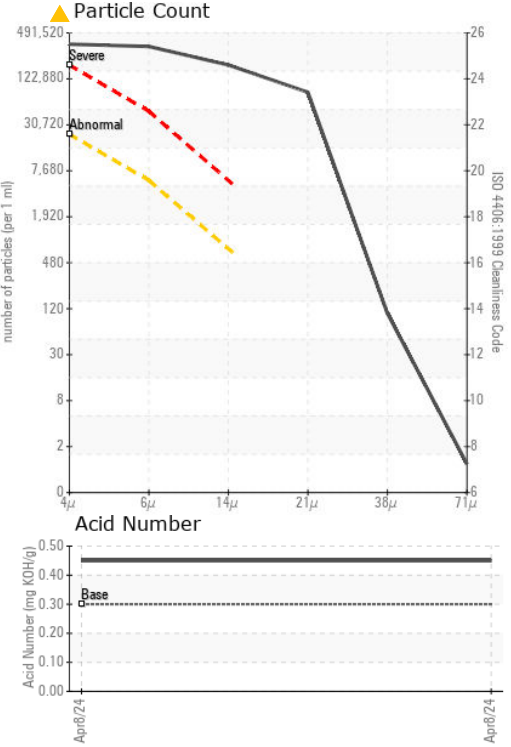
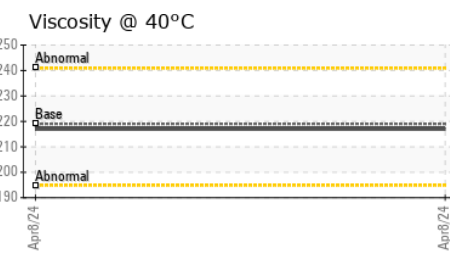
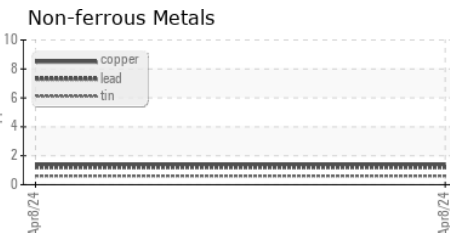
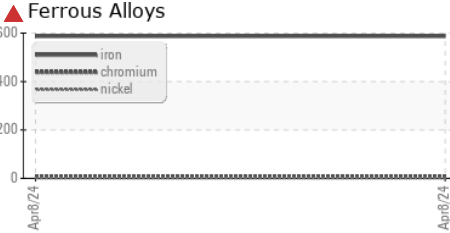
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	219	<b>217</b>	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0001772 **Received** : 12 Apr 2024  
**Lab Number** : 06147340 **Tested** : 15 Apr 2024  
**Unique Number** : 10977418 **Diagnosed** : 16 Apr 2024 - Don Baldrige  
**Test Package** : PLANT

**MONOLITH**  
 27077 SW 42ND ST  
 HALLAM, NE  
 US 68368

Contact: ALANA WALLACE  
 alana.wallace@monolith-corp.com

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:  
F: