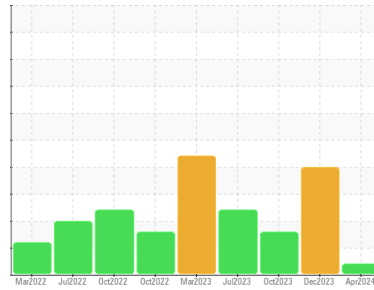




# OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Area

**FP-010 [10024105022]**

Machine Id

**A11615 - CONVEYOR KSI INCLINE SCREW RAW PROD #3**

Component

**Gearbox**

Fluid

**PETRO CANADA SYNDURO SHB ISO 460 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

### Contamination

Moderate concentration of visible dirt/debris present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0908000</b>	WC0866747	WC0850213
Sample Date	Client Info		<b>07 Apr 2024</b>	03 Dec 2023	11 Oct 2023
Machine Age	days	Client Info	<b>0</b>	0	0
Oil Age	days	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	SEVERE	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<b>64</b>	35	33
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	0	0
Lead	ppm	ASTM D5185m	>100	<b>1</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>1</b>	1	0
Tin	ppm	ASTM D5185m	>25	<b>1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	5.0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>2</b>	1	0
Magnesium	ppm	ASTM D5185m	5.0	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185m	5.0	<b>9</b>	2	0
Phosphorus	ppm	ASTM D5185m	60	<b>103</b>	92	99
Zinc	ppm	ASTM D5185m	5.0	<b>9</b>	0	0
Sulfur	ppm	ASTM D5185m	1900	<b>2375</b>	2079	2158

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<b>4</b>	4	4
Sodium	ppm	ASTM D5185m		<b>2</b>	2	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2

## FLUID CLEANLINESS

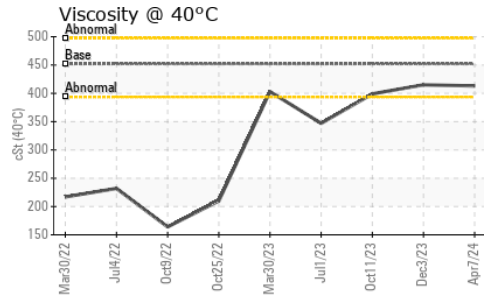
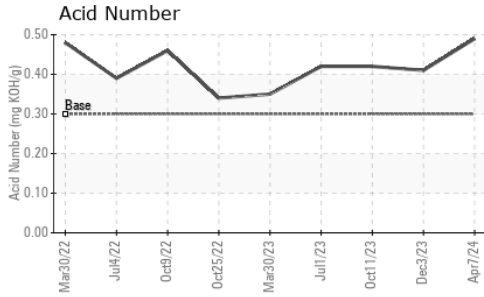
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	▲ 223551	---
Particles >6µm	ASTM D7647	>5000	---	▲ 48721	---
Particles >14µm	ASTM D7647	>640	---	● 1299	---
Particles >21µm	ASTM D7647	>160	---	● 209	---
Particles >38µm	ASTM D7647	>40	---	● 7	---
Particles >71µm	ASTM D7647	>10	---	● 0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	---	▲ 25/23/17	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	<b>0.49</b>	0.41	0.42



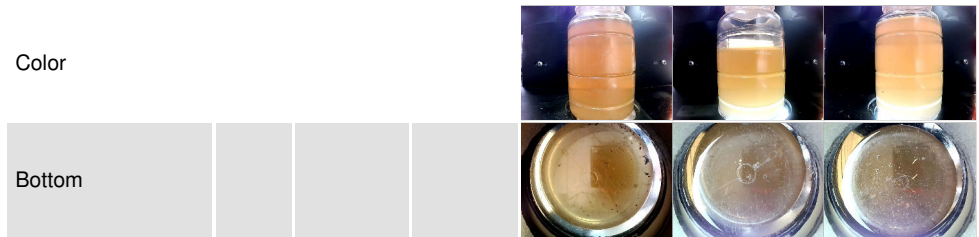
# OIL ANALYSIS REPORT



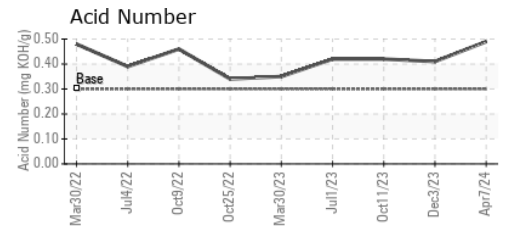
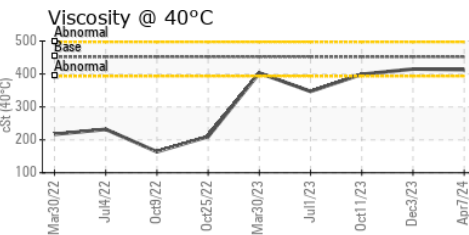
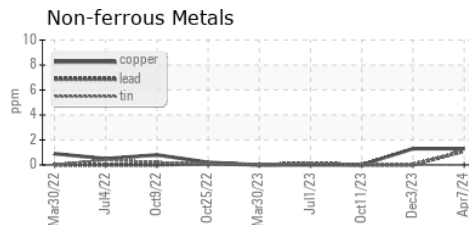
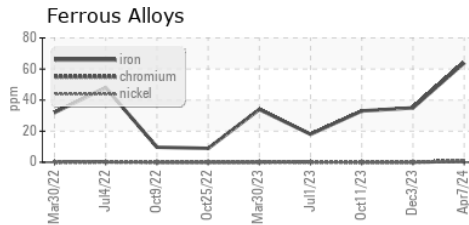
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	▲ HEAVY
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	▲ HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	415	399

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0908000      **Received** : 12 Apr 2024  
**Lab Number** : 06147311      **Tested** : 16 Apr 2024  
**Unique Number** : 10977389      **Diagnosed** : 16 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

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)

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