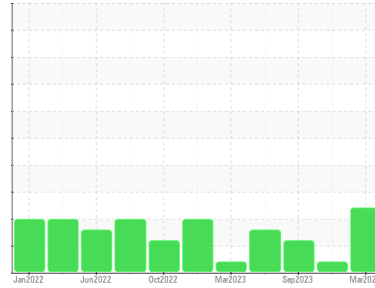




# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area

**FP-010**

Machine Id

**B24606 - CONVEYOR KSI INCLINE SCREW RAW PROD #2**

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.

#### Wear

All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0907935</b>	WC0880535	WC0851174
Sample Date	Client Info		<b>27 Mar 2024</b>	22 Dec 2023	28 Sep 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>	ABNORMAL	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>20</b>	72	51
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</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>2</b>	0	0
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m	>25	<b>1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>21</b>	0	0
Barium	ppm	ASTM D5185m	5.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	5.0	<b>2</b>	0	0
Calcium	ppm	ASTM D5185m	5.0	<b>7</b>	1	0
Phosphorus	ppm	ASTM D5185m	60	<b>499</b>	358	367
Zinc	ppm	ASTM D5185m	5.0	<b>13</b>	0	0
Sulfur	ppm	ASTM D5185m	1900	<b>6615</b>	1139	1094

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<b>8</b>	20	18
Sodium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	<1

### FLUID CLEANLINESS

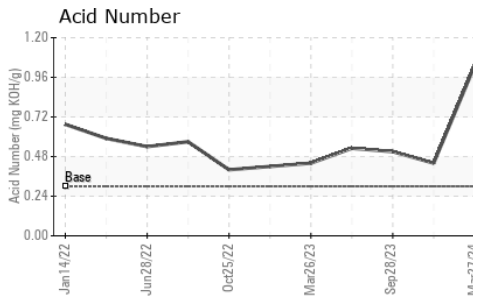
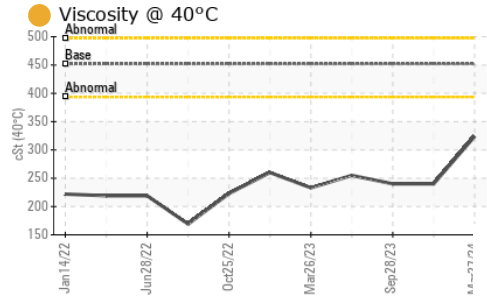
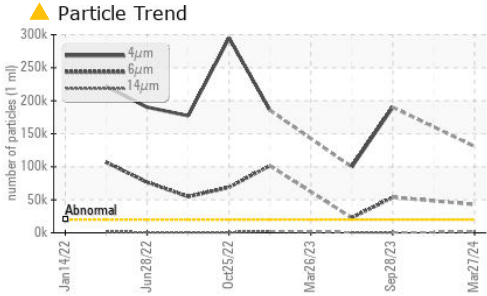
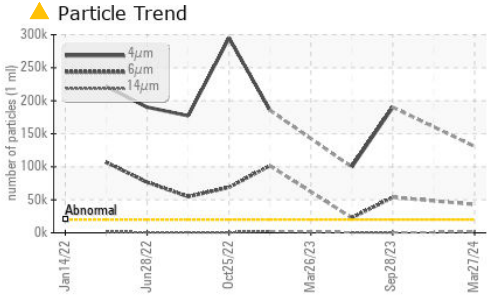
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 130848</b>	---	▲ 190066
Particles >6µm	ASTM D7647	>5000	<b>▲ 42962</b>	---	▲ 53720
Particles >14µm	ASTM D7647	>640	<b>▲ 1369</b>	---	452
Particles >21µm	ASTM D7647	>160	<b>▲ 257</b>	---	34
Particles >38µm	ASTM D7647	>40	<b>6</b>	---	0
Particles >71µm	ASTM D7647	>10	<b>1</b>	---	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 24/23/18</b>	---	▲ 25/23/16

### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	<b>1.03</b>	0.44	0.51



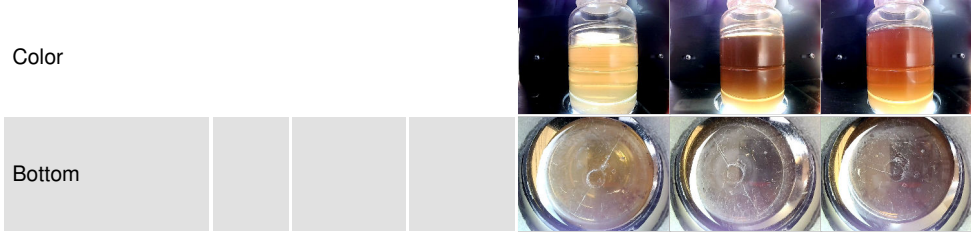
# OIL ANALYSIS REPORT



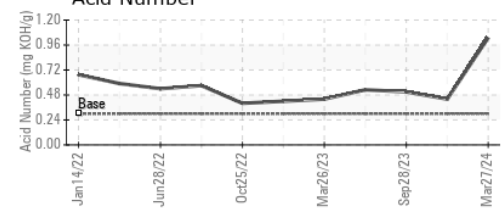
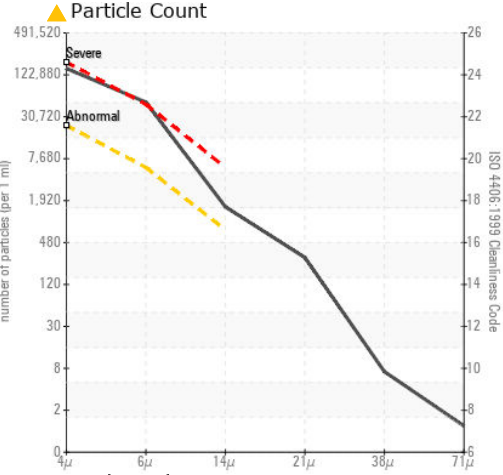
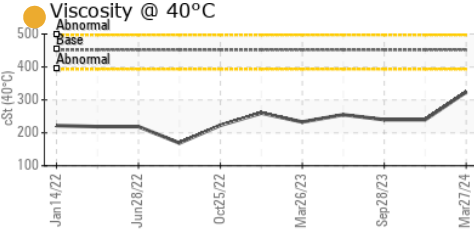
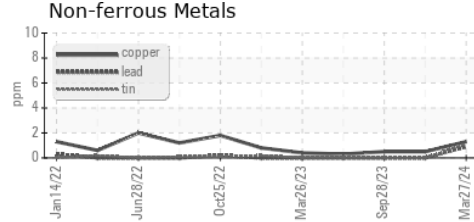
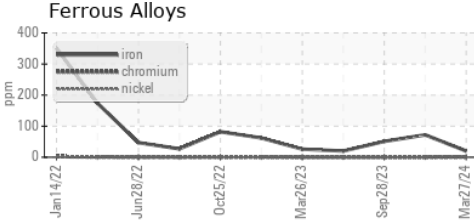
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	452	● <b>324</b>	240	240

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0907935      **Received** : 02 Apr 2024  
**Lab Number** : **06136346**      **Tested** : 03 Apr 2024  
**Unique Number** : 10955811      **Diagnosed** : 04 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**HORMEL FOODS - AUSTIN**  
 1101 NORTH MAIN ST  
 AUSTIN, MN  
 US 55912  
 Contact: RYAN LOWE  
 rslowe@hormel.com  
 T: (507)437-5674  
 F: (507)437-9805

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)