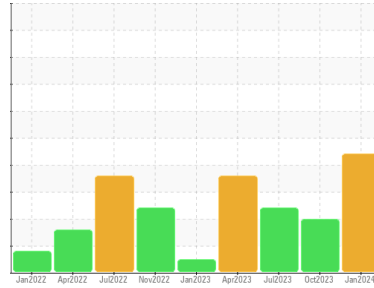




# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**FP-010**  
 Machine Id  
**B24610 - CONVEYOR KSI INCLINE SCREW RAW PROD #6**  
 Component  
**Auger**  
 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

Gear wear is indicated. All other component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

### 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>WC0880561</b>	WC0850222	WC0820609
Sample Date	Client Info		<b>09 Jan 2024</b>	08 Oct 2023	05 Jul 2023
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	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	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>150	<b>▲ 278</b>	147	89
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
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	5.0	<b>3</b>	1	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>2</b>	1	<1
Magnesium	ppm	ASTM D5185m	5.0	<b>2</b>	4	1
Calcium	ppm	ASTM D5185m	5.0	<b>13</b>	7	<1
Phosphorus	ppm	ASTM D5185m	60	<b>145</b>	94	102
Zinc	ppm	ASTM D5185m	5.0	<b>0</b>	2	0
Sulfur	ppm	ASTM D5185m	1900	<b>2464</b>	2122	2800

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<b>▲ 72</b>	22	5
Sodium	ppm	ASTM D5185m		<b>13</b>	10	<1
Potassium	ppm	ASTM D5185m	>20	<b>20</b>	9	2

## FLUID CLEANLINESS

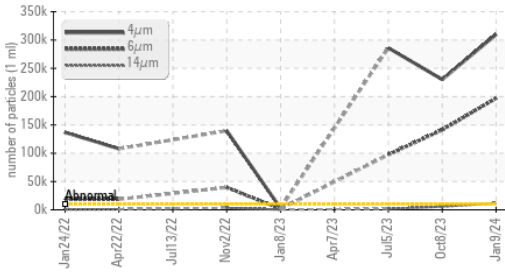
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 309782</b>	▲ 230244	▲ 286006
Particles >6µm	ASTM D7647	>2500	<b>▲ 197067</b>	▲ 141096	▲ 97391
Particles >14µm	ASTM D7647	>320	<b>▲ 11642</b>	▲ 5610	▲ 1713
Particles >21µm	ASTM D7647	>80	<b>▲ 1227</b>	▲ 1008	▲ 406
Particles >38µm	ASTM D7647	>20	<b>4</b>	14	7
Particles >71µm	ASTM D7647	>4	<b>2</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>▲ 25/25/21</b>	▲ 25/24/20	▲ 25/24/18

## FLUID DEGRADATION

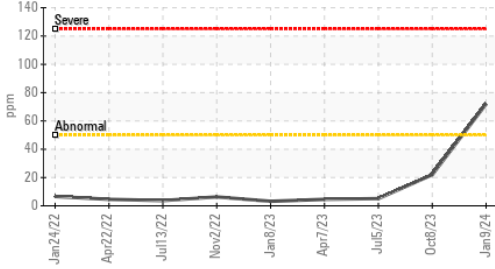
	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	<b>0.77</b>	0.48	0.29

# OIL ANALYSIS REPORT

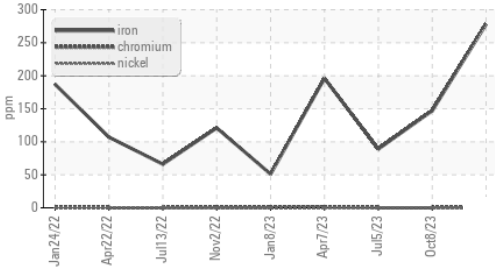
### ▲ Particle Trend



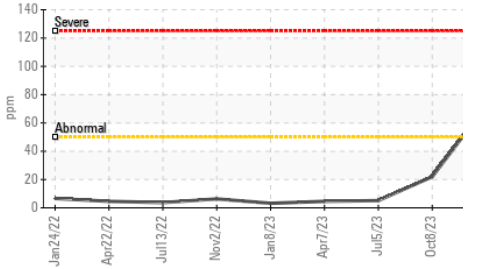
### ▲ Silicon (ppm)



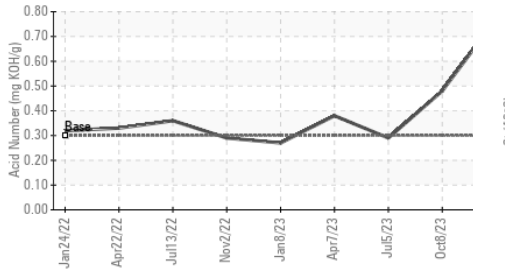
### ▲ Ferrous Alloys



### ▲ Silicon (ppm)



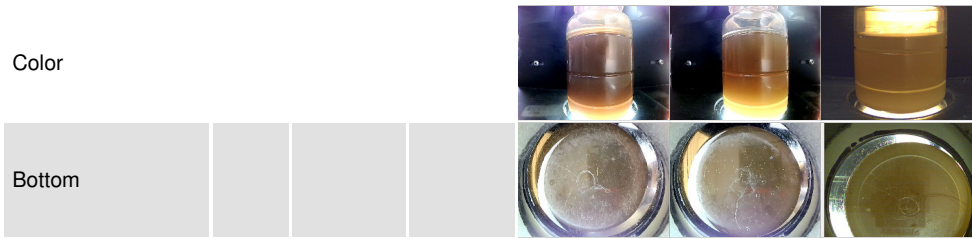
### Acid Number



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	HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

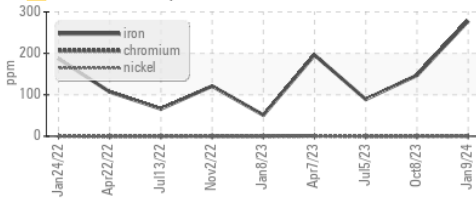
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	437	441 ▲ 439

SAMPLE IMAGES	method	limit/base	current	history1	history2
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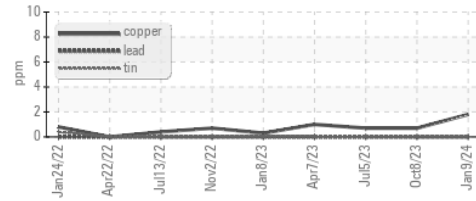


## GRAPHS

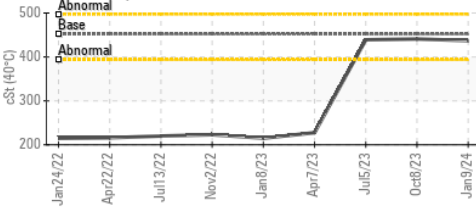
### ▲ Ferrous Alloys



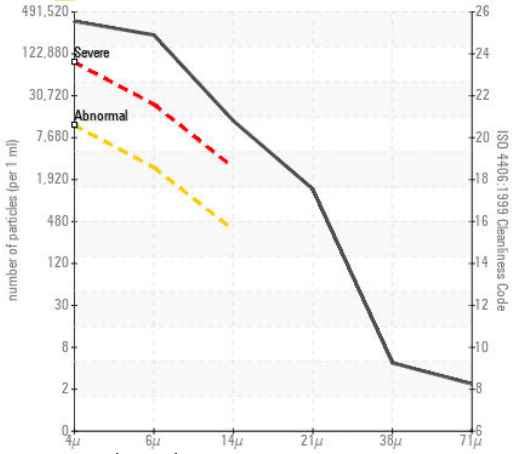
### Non-ferrous Metals



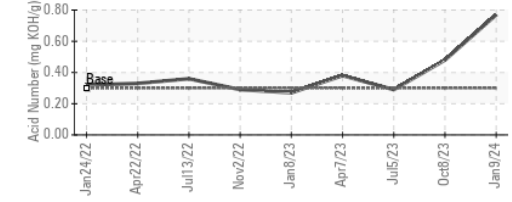
### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0880561 **Received** : 17 Jan 2024  
**Lab Number** : 06063559 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834941 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**HORMEL FOODS - AUSTIN**  
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 US 55912  
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 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)