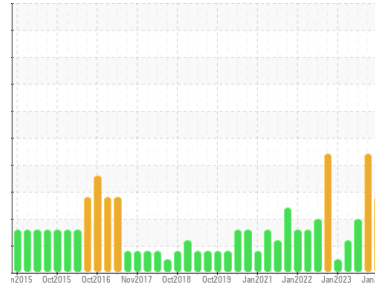




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**RP-101**  
 Machine Id  
**B57013 PRESSER FEED AUGER 1**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENDURATEX EP 320 (--- 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.

### Contamination

There is a high amount of particulates 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>WC0880545</b>	WC0842514	WC0820605
Sample Date	Client Info		<b>05 Jan 2024</b>	13 Oct 2023	16 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>	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>▲ 157</b>	44	92
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	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>1</b>	0	<1
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >200	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m >25	<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 55	<b>38</b>	33	40
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 0	<b>2</b>	0	2
Calcium	ppm	ASTM D5185m 0	<b>22</b>	6	7
Phosphorus	ppm	ASTM D5185m 240	<b>461</b>	446	526
Zinc	ppm	ASTM D5185m 1	<b>15</b>	3	16
Sulfur	ppm	ASTM D5185m 13700	<b>5515</b>	5309	6887

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>16</b>	8	13
Sodium	ppm	ASTM D5185m	<b>9</b>	4	9
Potassium	ppm	ASTM D5185m >20	<b>9</b>	4	1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 168463</b>	● 120287	▲ 246374
Particles >6µm	ASTM D7647	>2500	<b>▲ 94547</b>	● 24335	▲ 98690
Particles >14µm	ASTM D7647	>320	<b>▲ 4098</b>	▲ 602	▲ 2241
Particles >21µm	ASTM D7647	>80	<b>▲ 649</b>	▲ 137	▲ 321
Particles >38µm	ASTM D7647	>20	<b>16</b>	4	9
Particles >71µm	ASTM D7647	>4	<b>1</b>	0	2
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>▲ 25/24/19</b>	● 24/22/16	▲ 25/24/18

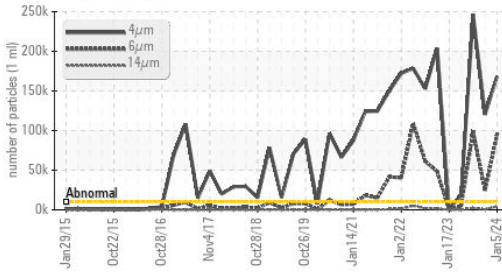
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>1.67</b>	1.22	1.10

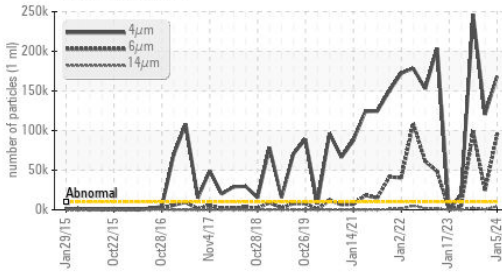


# OIL ANALYSIS REPORT

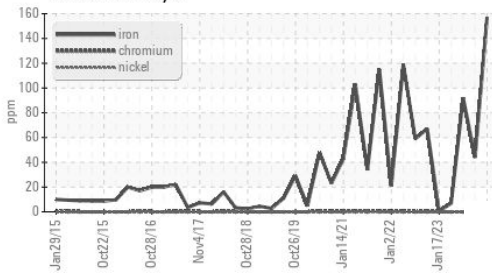
## Particle Trend



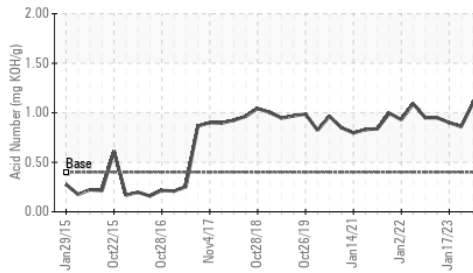
## Particle Trend



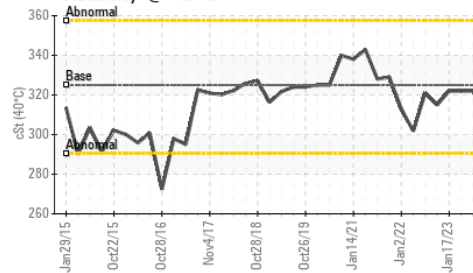
## Ferrous Alloys



## Acid Number



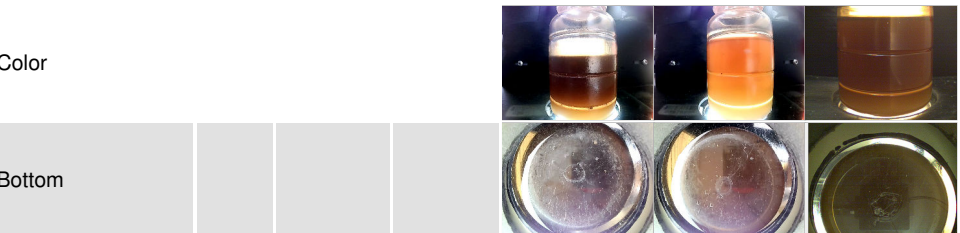
## Viscosity @ 40°C



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	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

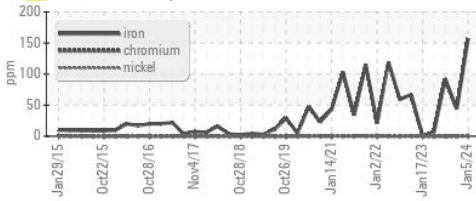
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	325	309	313

## SAMPLE IMAGES

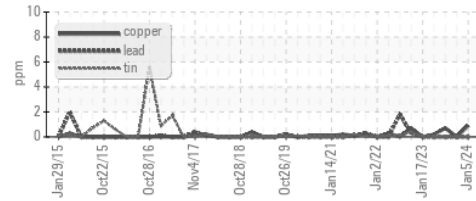


## GRAPHS

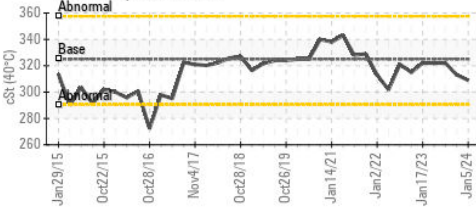
### Ferrous Alloys



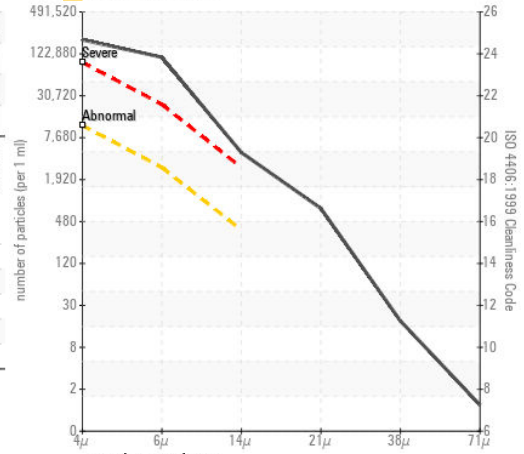
### Non-ferrous Metals



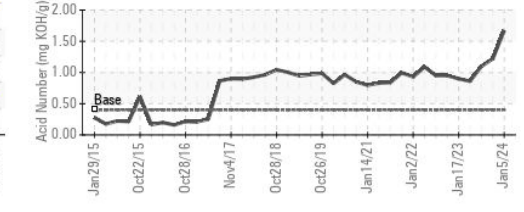
### Viscosity @ 40°C



### Particle Count



### Acid Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0880545 **Received** : 17 Jan 2024  
**Lab Number** : 06062625 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834007 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**HORMEL FOODS - AUSTIN**  
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 US 55912  
 Contact: RYAN LOWE  
 rslowe@hormel.com  
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 F: (507)437-9805

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)