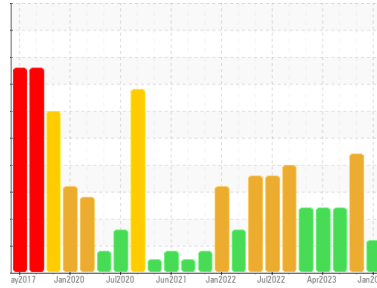




# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area  
**WH-100**  
 Machine Id  
**B25970 - STORK GEARBOX #5 (3RD ON STERILE SECTION)**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENDURATEX WG 680 (--- GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

#### Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0880592</b>	WC0856017	WC0826079
Sample Date	Client Info	<b>10 Jan 2024</b>	29 Nov 2023	25 Jul 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ATTENTION</b>	ABNORMAL	ABNORMAL

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>13</b>	6	11
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >15	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</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>0</b>	0	0
Copper	ppm	ASTM D5185m >200	<b>17</b>	16	13
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 1	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 1	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m 1	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m 1	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m 1	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m 1	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m 1	<b>48</b>	<1	0
Zinc	ppm	ASTM D5185m 1	<b>0</b>	10	0
Sulfur	ppm	ASTM D5185m 3114	<b>2965</b>	2438	3093

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	<b>1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Water	%	ASTM D6304 >0.2	<b>0.039</b>	▲ 0.339	---
ppm Water	ppm	ASTM D6304 >2000	<b>390</b>	▲ 3390	---

### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ <b>11879</b>	▲ 14093	▲ 232268
Particles >6µm	ASTM D7647 >2500	<b>1578</b>	▲ 7678	▲ 166881
Particles >14µm	ASTM D7647 >320	<b>43</b>	▲ 1307	▲ 19670
Particles >21µm	ASTM D7647 >80	<b>11</b>	▲ 440	▲ 1139
Particles >38µm	ASTM D7647 >20	<b>0</b>	▲ 68	8
Particles >71µm	ASTM D7647 >4	<b>0</b>	▲ 7	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ <b>21/18/13</b>	▲ 21/20/18	▲ 25/25/21

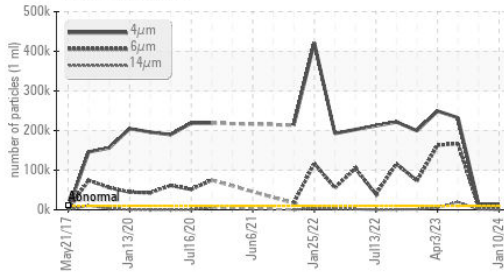
### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.43	<b>1.60</b>	1.55	1.43

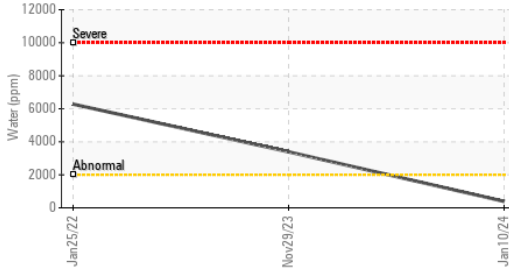


# OIL ANALYSIS REPORT

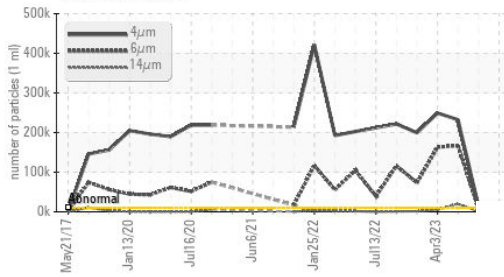
## Particle Trend



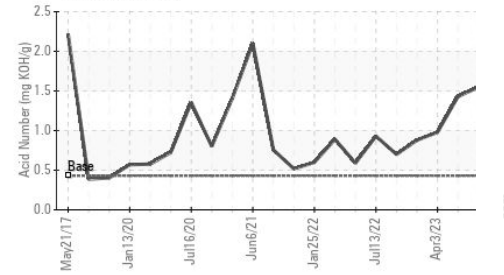
## Water (KF)



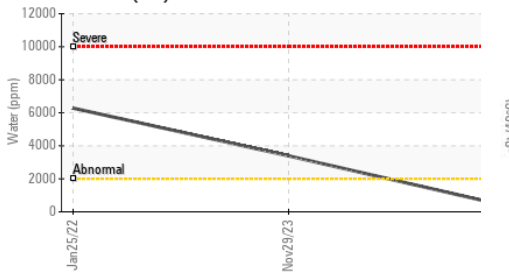
## Particle Trend



## Acid Number



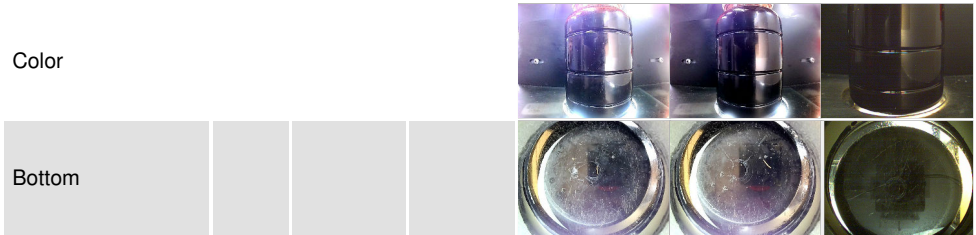
## Water (KF)



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	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

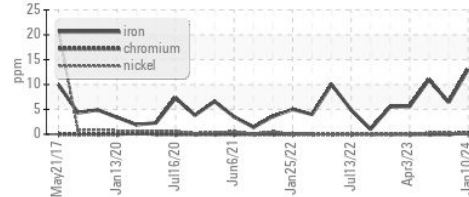
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	676.7 ▲ 839	755	▲ 834

SAMPLE IMAGES	method	limit/base	current	history1	history2
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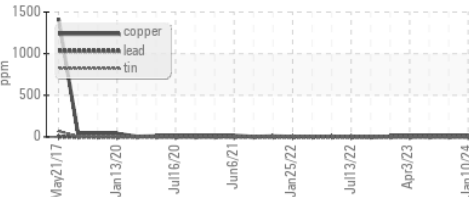


## GRAPHS

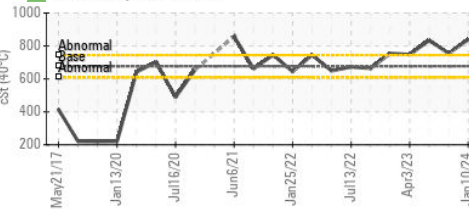
### Ferrous Alloys



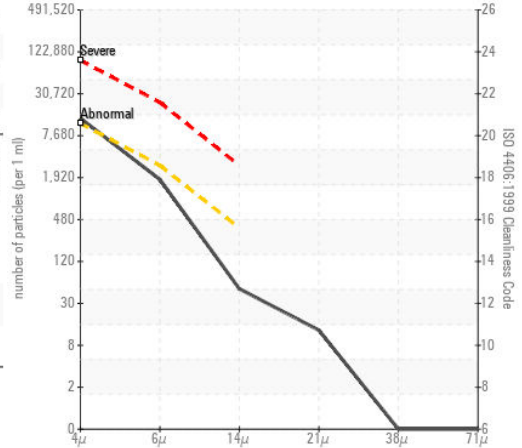
### Non-ferrous Metals



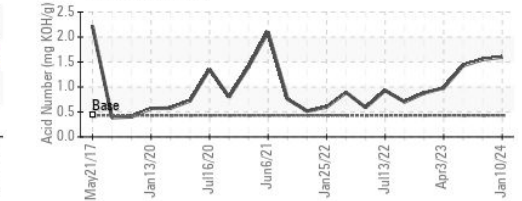
### Viscosity @ 40°C



### Particle Count



### Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0880592  
 Lab Number : 06063554  
 Unique Number : 10834936  
 Test Package : IND 2 ( Additional Tests: KF, 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)