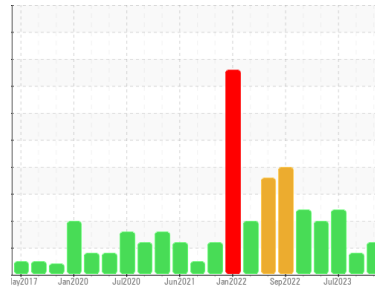




# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area  
**WH-100**  
 Machine Id  
**B25970 - STORK GEARBOX #4 (2ND 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>WC0880588</b>	WC0856018	WC0826081
Sample Date	Client Info		<b>10 Jan 2024</b>	29 Nov 2023	25 Jul 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	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>15</b>	6	3
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>10</b>	8	5
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>	0	0
Calcium	ppm	ASTM D5185m	1	<b>1</b>	2	0
Phosphorus	ppm	ASTM D5185m	1	<b>51</b>	<1	2
Zinc	ppm	ASTM D5185m	1	<b>0</b>	6	6
Sulfur	ppm	ASTM D5185m	3114	<b>3048</b>	2429	3184

### 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	0
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Water	%	ASTM D6304	>0.2	<b>0.021</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>210</b>	---	---

### FLUID CLEANLINESS

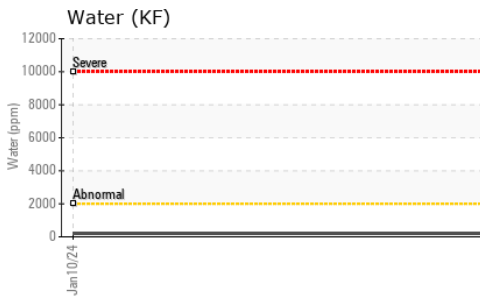
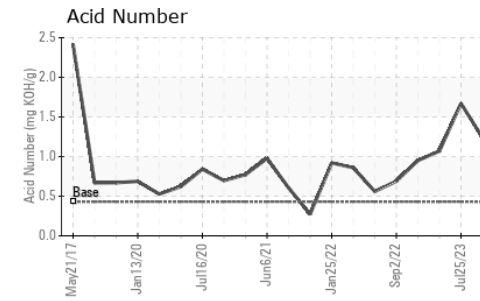
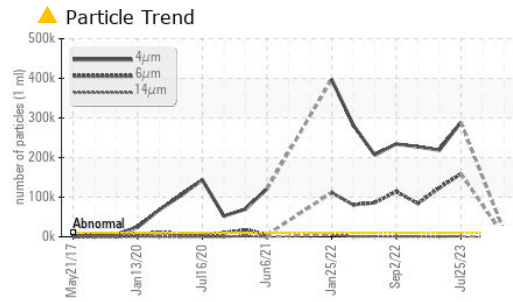
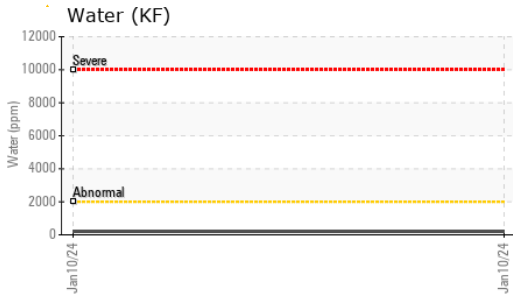
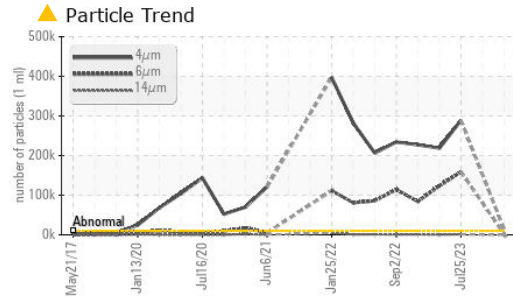
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 14425</b>	---	▲ 288859
Particles >6µm	ASTM D7647	>2500	<b>1905</b>	---	▲ 158960
Particles >14µm	ASTM D7647	>320	<b>59</b>	---	▲ 1248
Particles >21µm	ASTM D7647	>80	<b>13</b>	---	▲ 115
Particles >38µm	ASTM D7647	>20	<b>1</b>	---	2
Particles >71µm	ASTM D7647	>4	<b>0</b>	---	1
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>▲ 21/18/13</b>	---	▲ 25/24/17

### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.43	<b>1.17</b>	1.24	1.67



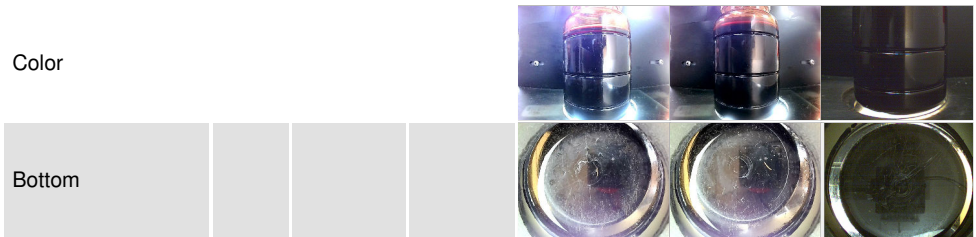
# OIL ANALYSIS REPORT



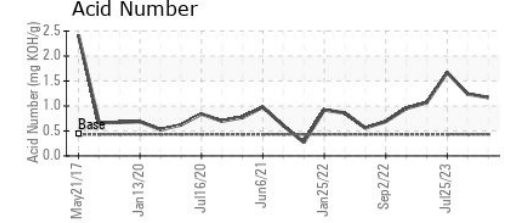
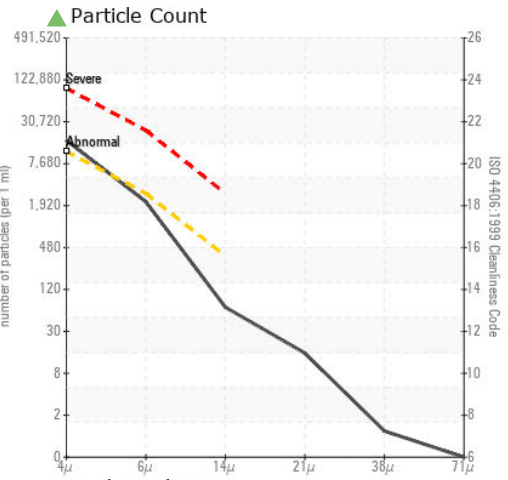
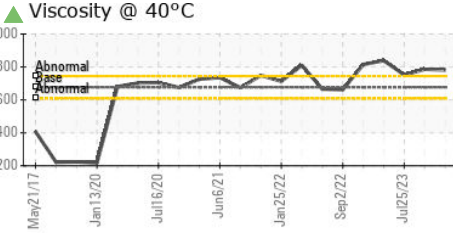
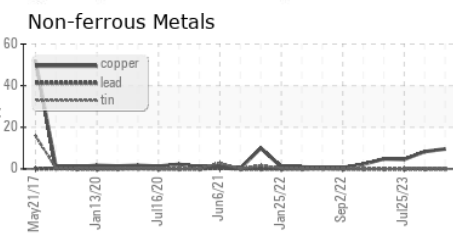
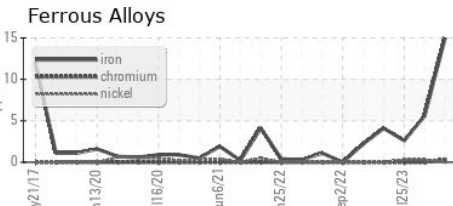
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	▲ 781.2	786

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0880588 **Received** : 17 Jan 2024  
**Lab Number** : 06063551 **Diagnosed** : 24 Jan 2024  
**Unique Number** : 10834933 **Diagnostician** : Doug Bogart  
**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

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)