



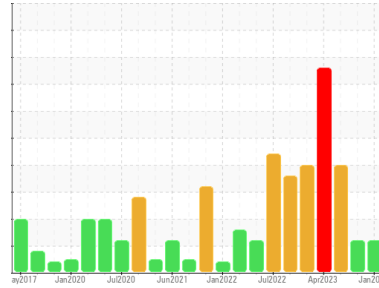
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**WH-100**  
 Machine Id  
**B25970 - STORK COOKER GEARBOX #7 (2ND ON CHILL SECTION)**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENDURATEX WG 680 (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

### 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>WC0880596</b>	WC0856021	WC0826084
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	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>8</b>	10	6
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>5</b>	9	9
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>&lt;1</b>	2	0
Phosphorus	ppm	ASTM D5185m 1	<b>46</b>	<1	0
Zinc	ppm	ASTM D5185m 1	<b>0</b>	4	0
Sulfur	ppm	ASTM D5185m 3114	<b>3053</b>	2437	3199

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	2	<1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Water	%	ASTM D6304 >0.2	<b>0.041</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>410</b>	---	---

## FLUID CLEANLINESS

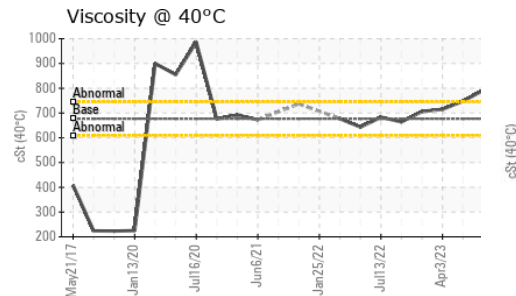
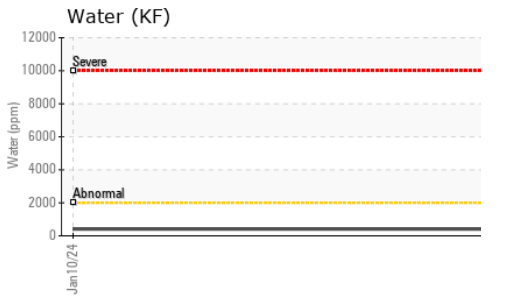
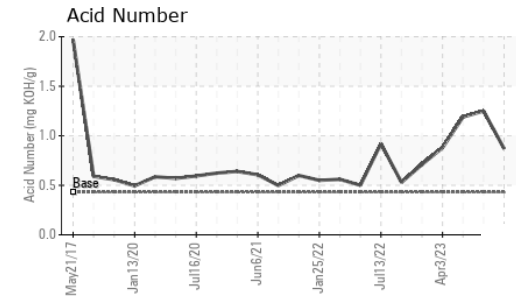
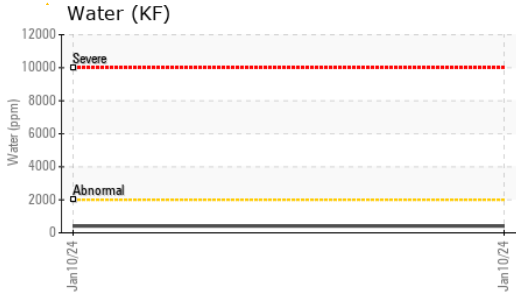
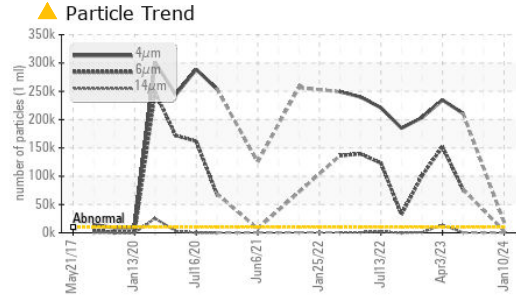
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 18963</b>	---	● 210879
Particles >6µm	ASTM D7647	>2500	<b>▲ 3188</b>	---	● 76881
Particles >14µm	ASTM D7647	>320	<b>92</b>	---	▲ 362
Particles >21µm	ASTM D7647	>80	<b>18</b>	---	52
Particles >38µm	ASTM D7647	>20	<b>1</b>	---	2
Particles >71µm	ASTM D7647	>4	<b>0</b>	---	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>▲ 21/19/14</b>	---	● 25/23/16

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.43	<b>0.87</b>	1.25	1.19



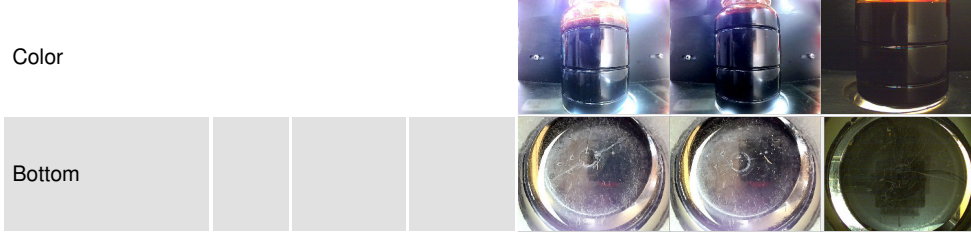
# OIL ANALYSIS REPORT



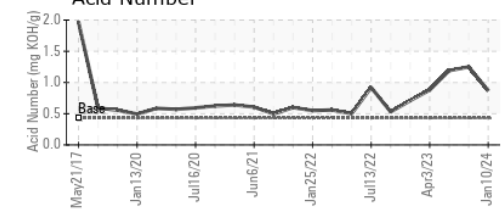
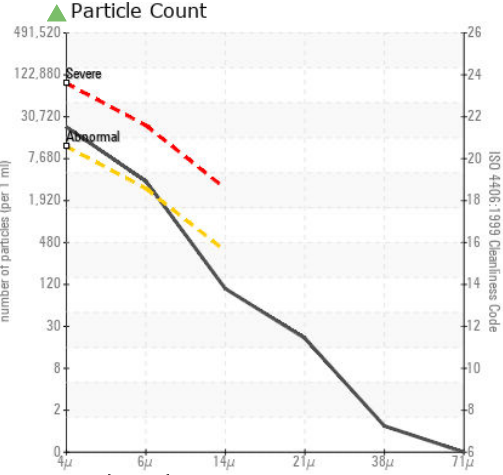
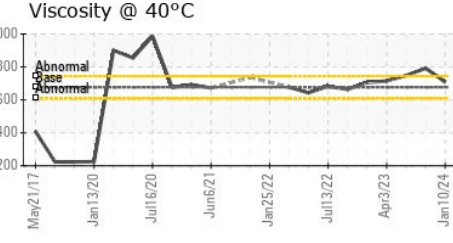
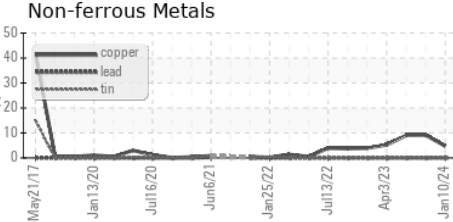
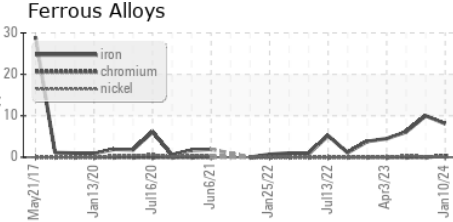
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	708	▲ 792.1	748

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0880596 **Received** : 17 Jan 2024  
**Lab Number** : 06063553 **Diagnosed** : 24 Jan 2024  
**Unique Number** : 10834935 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**HORMEL FOODS - AUSTIN**  
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 jvcowell@hormel.com  
 T: (507)434-6490  
 F:

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)