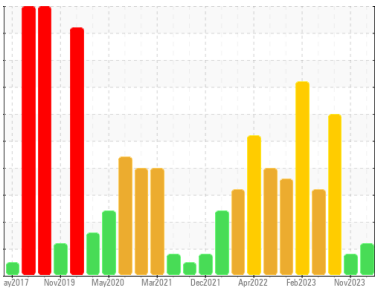
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
WH-100
Machine Id
B25970 - STORK COOKER GEARBOX #1 (INFEED)
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX WG 680 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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 moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0880589**	WC0856025	WC0826077
Sample Date		Client Info		**10 Jan 2024**	29 Nov 2023	25 Jul 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**7**	<1	19
Chromium	ppm	ASTM D5185m	>15	**<1**	0	0
Nickel	ppm	ASTM D5185m	>15	**<1**	<1	2
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	0	0
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**9**	24	58
Tin	ppm	ASTM D5185m	>25	**<1**	2	8
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	**0**	0	0
Barium	ppm	ASTM D5185m	1	**3**	0	0
Molybdenum	ppm	ASTM D5185m	1	**0**	0	0
Manganese	ppm	ASTM D5185m	1	**0**	<1	0
Magnesium	ppm	ASTM D5185m	1	**0**	0	0
Calcium	ppm	ASTM D5185m	1	**<1**	0	0
Phosphorus	ppm	ASTM D5185m	1	**45**	<1	23
Zinc	ppm	ASTM D5185m	1	**0**	0	0
Sulfur	ppm	ASTM D5185m	3114	**3065**	2427	3052

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**2**	3	1
Sodium	ppm	ASTM D5185m		**0**	1	<1
Potassium	ppm	ASTM D5185m	>20	**<1**	0	0
Water	%	ASTM D6304	>0.2	**0.087**	---	---
ppm Water	ppm	ASTM D6304	>2000	**870**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **70108**	---	⬢ 239958
Particles >6µm		ASTM D7647	>2500	▲ **14498**	---	⬢ 164596
Particles >14µm		ASTM D7647	>320	**312**	---	⬢ 7292
Particles >21µm		ASTM D7647	>80	**42**	---	▲ 212
Particles >38µm		ASTM D7647	>20	**1**	---	7
Particles >71µm		ASTM D7647	>4	**0**	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **23/21/15**	---	⬢ 25/25/20

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.43	**0.73**	0.60	1.32

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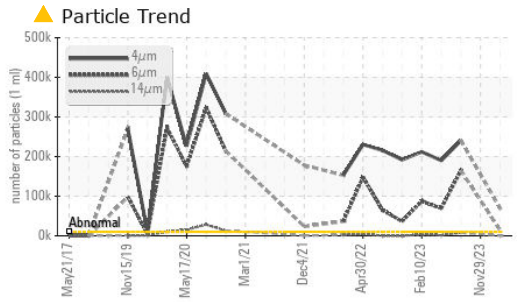
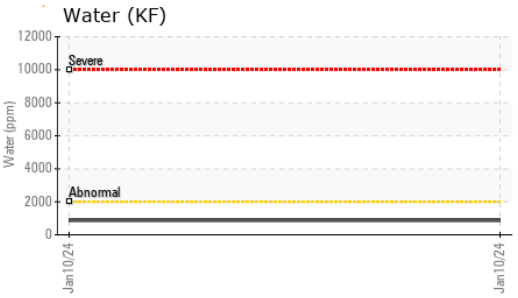
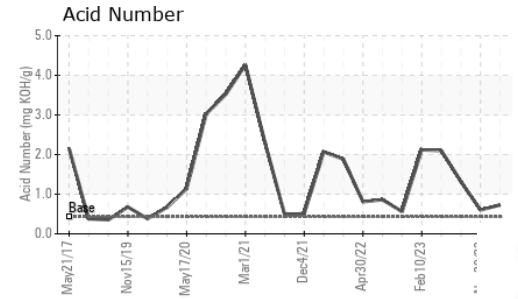
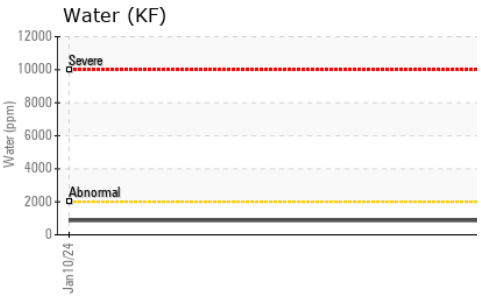
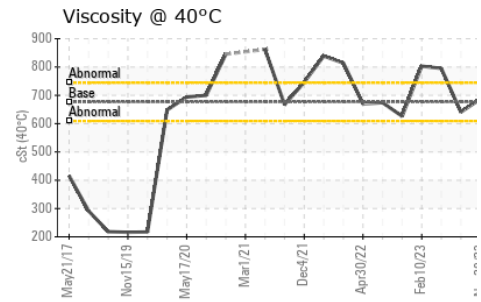








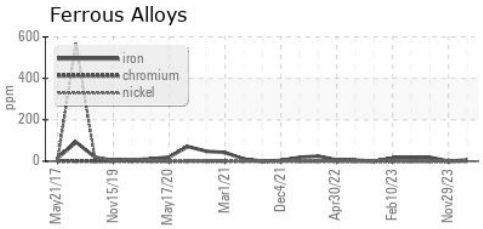


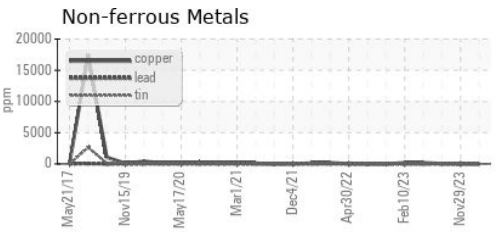
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**0.2%**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

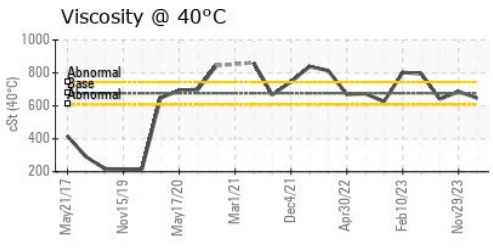
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	676.7	**647**	687	641

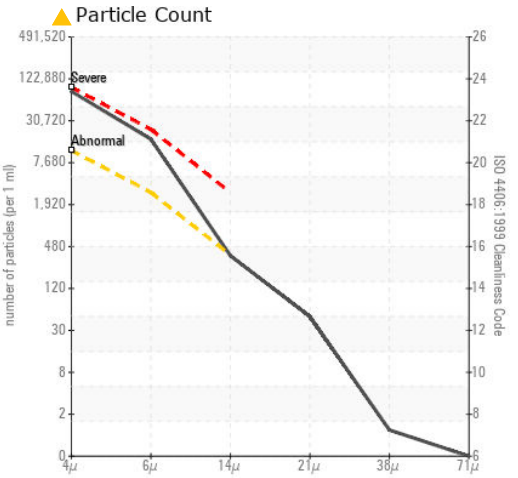
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

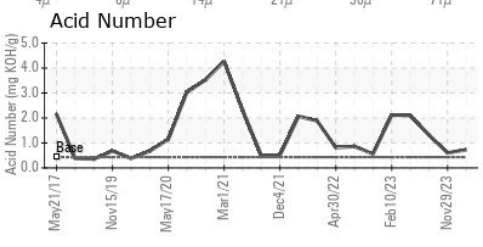
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0880589 **Recieved** : 17 Jan 2024
Lab Number : 06063561 **Diagnosed** : 25 Jan 2024
Unique Number : 10834943 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

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