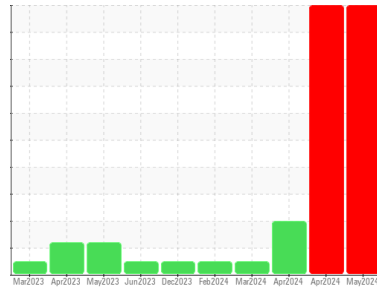




PROBLEM SUMMARY

Machine Id
GE Unit # 4 Governor Sump
 Component
Governor System
 Fluid
PETRO CANADA TURBOFLO R&O 68 (1000 GAL)

Sample Rating Trend

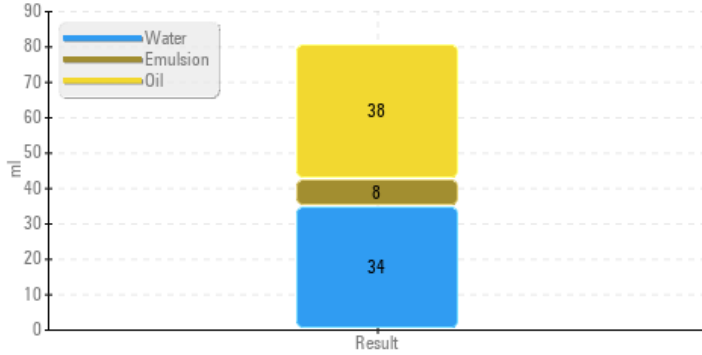


CONTAMINANT



COMPONENT CONDITION SUMMARY

▲ Water Separability



RECOMMENDATION

Recommend Varnish Potential testing (MPC). Air Release, Foam Tendency, and Water Separability tests and evaluation performed at WearCheck Canada.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	ATTENTION
Separability	oil/h2o/em	*ASTM D1401	41/39/0	▲ 38/34/8 (30)	▲ 25/19/36 (30)	36/32/12 (30)

Customer Id: USAHEN
 Sample No.: KFS0005997
 Lab Number: 06207764
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

CONTAMINANT



30 Apr 2024 Diag: Doug Bogart

This is a baseline read-out on the submitted sample. All tests and evaluation performed at WearCheck Canada. {not applicable} Separability (Emulsion) % is severely high. Separability (Oil) % is severely low. Separability (Water) % is severely low. Separability % is severely low. Air Release Time % is abnormal.

view report



ISO



04 Apr 2024 Diag: Doug Bogart

Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



NORMAL



12 Mar 2024 Diag: Doug Bogart

Resample at the next service interval to monitor. All tests and evaluation performed at performed at WearCheck Canada. Please note that this is a corrected copy. All component wear rates are normal. Insufficient sample was received to conduct all the routine laboratory tests. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

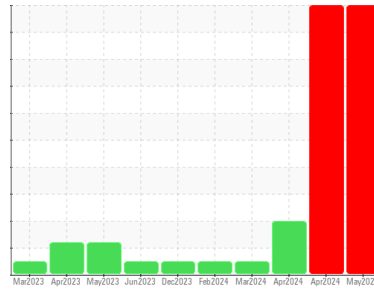
view report





OIL ANALYSIS REPORT

Sample Rating Trend



CONTAMINANT



Machine Id
GE Unit # 4 Governor Sump

Component
Governor System

Fluid
PETRO CANADA TURBOFLO R&O 68 (1000 GAL)

DIAGNOSIS

▲ Recommendation

Recommend Varnish Potential testing (MPC). Air Release, Foam Tendency, and Water Separability tests and evaluation performed at WearCheck Canada.

▲ Contamination

Separability (Emulsion) % is severely high. Separability (Water) % is severely low. Separability (Oil) % is marginally low.

▲ Fluid Condition

Separability % is severely low.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KFS0005997	KFS0005998	KFS0005996
Sample Date	Client Info		31 May 2024	30 Apr 2024	04 Apr 2024
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	N/A	Filtered
Sample Status			SEVERE	SEVERE	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	<1	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>75	2	0	0
Copper	ppm	ASTM D5185m	>15	<1	<1	0
Tin	ppm	ASTM D5185m	>55	<1	0	0
Antimony	ppm	ASTM D5185m	>5	---	---	---
Vanadium	ppm	ASTM D5185m		0	0	0
Beryllium	ppm	ASTM D5185m		---	---	---
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	1	<1
Calcium	ppm	ASTM D5185m	0	0	5	40
Phosphorus	ppm	ASTM D5185m	4	5	15	17
Zinc	ppm	ASTM D5185m	0	0	5	5
Sulfur	ppm	ASTM D5185m		137	229	232
Lithium	ppm	ASTM D5185m		---	---	---

CONTAMINANTS

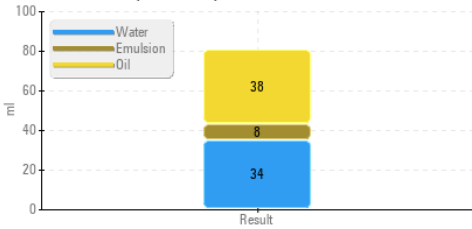
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>8	4	3	5
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0

FLUID CLEANLINESS

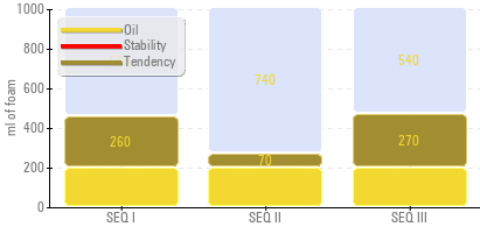
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	361	156	● 1420
Particles >6µm	ASTM D7647	>320	84	54	● 438
Particles >14µm	ASTM D7647	>40	4	9	● 48
Particles >21µm	ASTM D7647	>10	1	3	● 18
Particles >38µm	ASTM D7647	>3	0	0	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>17/15/12	16/14/9	14/13/10	● 18/16/13

OIL ANALYSIS REPORT

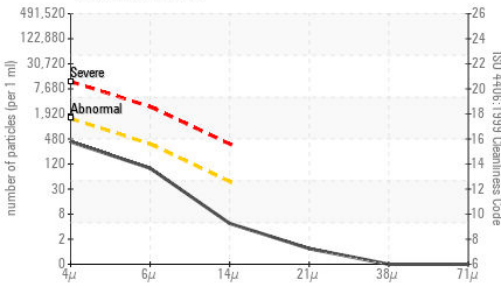
Water Separability



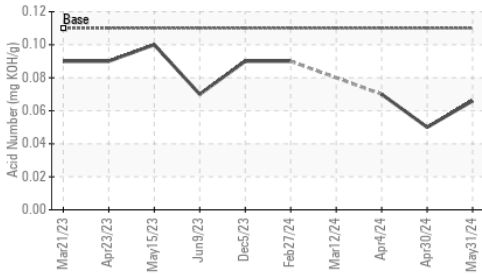
Foaming SEQ I/II/III



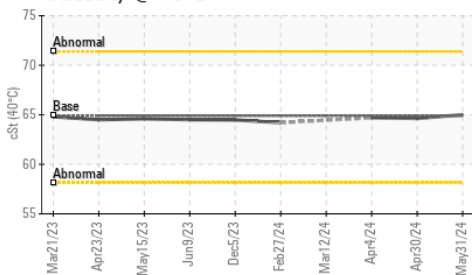
Particle Count



Acid Number



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0005997
Lab Number : 06207764
Unique Number : 11075225
Test Package : PLANT (Additional Tests: AirRelease, Foaming, H2OSeparability, PrtCount)

US ARMY CORPS OF ENGINEERS - OLD HICKORY
 10 POWER PLANT RD
 HENDERSONVILLE, TN
 US 37075

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)

T:
F:

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.11	0.066	0.05	0.07

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	NONE	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	64.9	65.0	64.63	64.7
Separability	oil/h2o/em	*ASTM D1401	41/39/0	▲ 38/34/8 (30)	▲ 25/19/36 (30)	36/32/12 (30)
Air Release Time	min	*ASTM D3427	8	9.90	▲ 11.2	10.8
Foam Tendency	I/II/III	*ASTM D892	10	260/70/270	10/70/10	5/30/5
Foam Stability	I/II/III	*ASTM D892	0	0/0/0	0/0/0	0/0/0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

