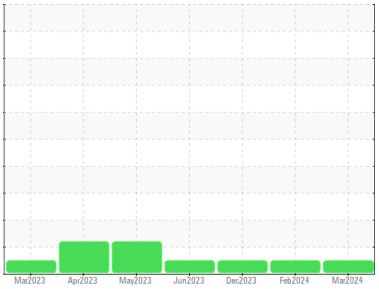
KIMBRO FLUID SOLUTIONS

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

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

DIAGNOSIS

Recommendation
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.

Wear
All component wear rates are normal.

Contamination
Insufficient sample was received to conduct all the routine laboratory tests. There is no indication of any contamination in the oil.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KFS0005995**	KFS0005994	KFS0004182
Sample Date		Client Info		**12 Mar 2024**	27 Feb 2024	05 Dec 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Filtered**	Filtered	Filtered
Sample Status				**NORMAL**	NORMAL	NORMAL

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

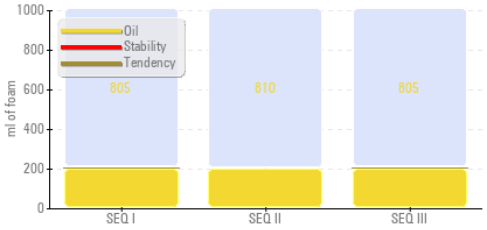
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	0
Barium	ppm	ASTM D5185m	0	**<1**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m	0	**0**	0	0
Magnesium	ppm	ASTM D5185m	0	**<1**	<1	<1
Calcium	ppm	ASTM D5185m	0	**1**	<1	<1
Phosphorus	ppm	ASTM D5185m	120	**11**	9	9
Zinc	ppm	ASTM D5185m	0.0	**5**	4	4
Sulfur	ppm	ASTM D5185m	50	**168**	173	166
Lithium	ppm	ASTM D5185m		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>8	**4**	5	<1
Sodium	ppm	ASTM D5185m		**1**	0	<1
Potassium	ppm	ASTM D5185m	>20	**9**	<1	0
Water	%	ASTM D6304	>0.1	**NEG**	NEG	NEG

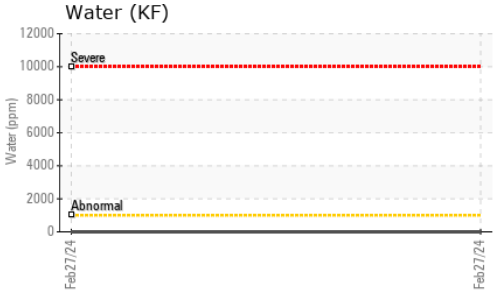
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	**---**	2847	141
Particles >6µm	ASTM D7647	>320	**---**	1104	74
Particles >14µm	ASTM D7647	>40	**---**	116	14
Particles >21µm	ASTM D7647	>10	**---**	30	4
Particles >38µm	ASTM D7647	>3	**---**	3	1
Particles >71µm	ASTM D7647	>3	**---**	1	0
Oil Cleanliness	ISO 4406 (c)	>17/15/12	**---**	19/17/14	14/13/11

OIL ANALYSIS REPORT

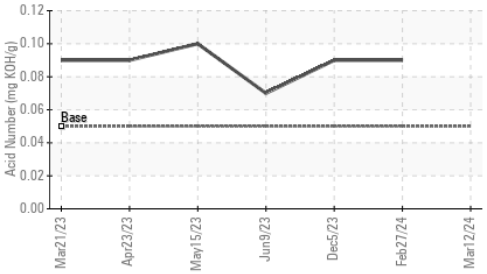
Foaming SEQ I/II/III



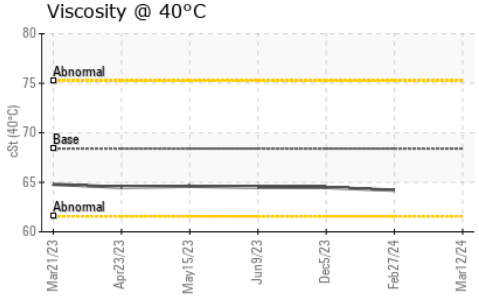
Water (KF)



Acid Number



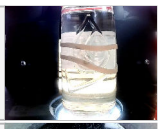
Viscosity @ 40°C



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	**---**	0.09	0.09

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	68.4	**---**	64.2	64.48
Separability	oil/h2o/em	*ASTM D1401	//	**41/39/0 (30)**	41/39/0 (25)	---
Air Release Time	min	*ASTM D3427		**10.4**	11.3	---
Foam Tendency	I/II/III	*ASTM D892	0	**5/0/5**	10/50/10	---
Foam Stability	I/II/III	*ASTM D892	0	**0/0/0**	0/0/0	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	
Bottom			*no image*	*no image*	

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0005995
Lab Number : 06124492
Unique Number : 10938643
Test Package : PLANT (Additional Tests: AirRelease, Foaming, H2OSeparability, KF, PrtCount)

Received : 21 Mar 2024
Tested : 29 Mar 2024
Diagnosed : 29 Mar 2024 - Doug Bogart

US ARMY CORPS OF ENGINEERS - OLD HICKORY
10 POWER PLANT RD
HENDERSONVILLE, TN
US 37075
Contact: Service Manager
T:
F:

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)