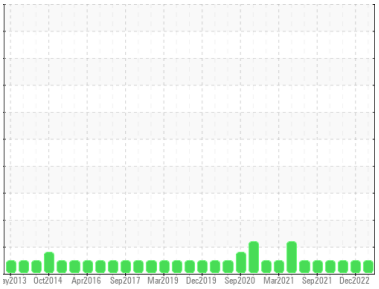
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
Southcentral Power Plant
Machine Id
13CTG-TLO
Component
Turbine
Fluid
MOBIL JET OIL II (150 GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Color 8.0.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0784108**	WC0567439	WC0631013
Sample Date		Client Info		**26 Apr 2023**	29 Dec 2022	20 Jun 2022
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**5000**	2880	0
Oil Changed		Client Info		**Not Changd**	Not Changd	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	**0**	0	0
Chromium	ppm	ASTM D5185m	>4	**<1**	0	0
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**<1**	0	0
Aluminum	ppm	ASTM D5185m	>10	**<1**	0	<1
Lead	ppm	ASTM D5185m		**<1**	0	0
Copper	ppm	ASTM D5185m	>5	**0**	0	<1
Tin	ppm	ASTM D5185m	>5	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	2
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	0
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m		**9**	0	0
Calcium	ppm	ASTM D5185m		**0**	0	0
Phosphorus	ppm	ASTM D5185m		**2903**	2797	2806
Zinc	ppm	ASTM D5185m		**4**	0	0
Sulfur	ppm	ASTM D5185m		**0**	0	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	0
Sodium	ppm	ASTM D5185m		**1**	0	4
Potassium	ppm	ASTM D5185m	>20	**<1**	0	0
Water	%	ASTM D6304	>.1	**0.081**	---	---
ppm Water	ppm	ASTM D6304	>1000	**812.5**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.3**	---	---
Nitration	Abs/cm	*ASTM D7624		**8.9**	---	---
Sulfation	Abs/.1mm	*ASTM D7415		**205.4**	---	---

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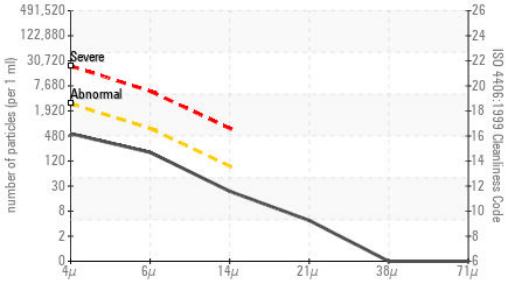
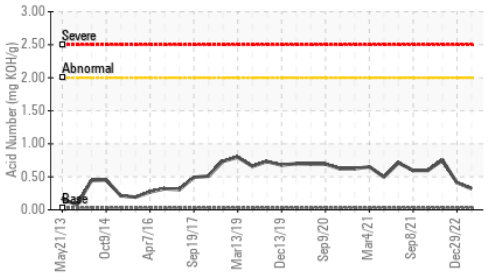
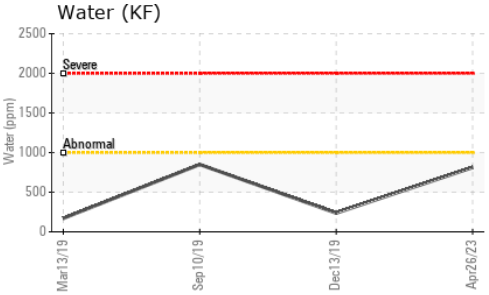
Particle Count



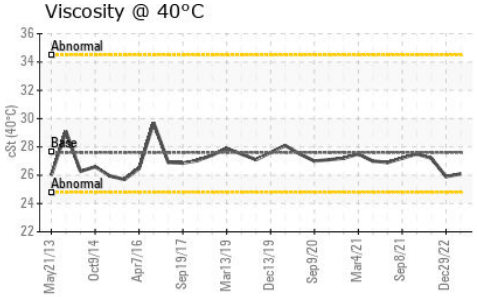
Acid Number



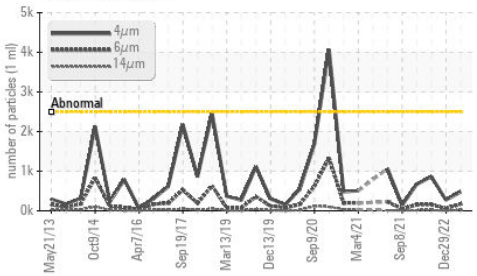
Water (KF)



Viscosity @ 40°C



Particle Trend



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	**479**	273	863
Particles >6µm		ASTM D7647	>640	**171**	60	155
Particles >14µm		ASTM D7647	>80	**20**	5	17
Particles >21µm		ASTM D7647	>20	**4**	1	7
Particles >38µm		ASTM D7647	>4	**0**	0	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**16/15/11**	15/13/10	17/14/11

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**228.8**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.03	**0.32**	0.41	0.75

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	VLITE
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	>.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	27.6	**26.1**	25.9	27.2
ASTM Color	scalar	*ASTM D1500		**8.0**	8.0	>8.0

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0784108 **Received** : 26 May 2023
Lab Number : 05858548 **Tested** : 31 May 2023
Unique Number : 10493013 **Diagnosed** : 31 May 2023 - Jonathan Hester
Test Package : PLANT (Additional Tests: Color-ASTM, FT-IR)

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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Report Id: CHUANCAK [WUSCAR] 05858548 (Generated: 02/27/2024 17:04:09) Rev: 1

Submitted By: AARON LOVE