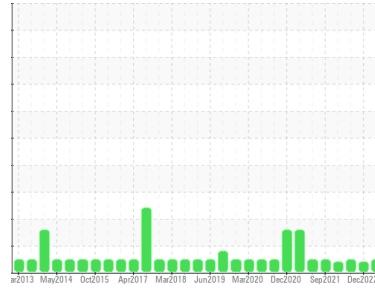




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Southcentral Power Plant**  
 Machine Id  
**11CTG-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 7.5.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0784110</b>	WC0631026	WC0631006
Sample Date	Client Info		<b>26 Apr 2023</b>	29 Dec 2022	20 Jun 2022
Machine Age	hrs	Client Info	<b>0</b>	2880	0
Oil Age	hrs	Client Info	<b>5000</b>	2880	0
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	N/A
Sample Status			<b>NORMAL</b>	MARGINAL	NORMAL

## WEAR METALS

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

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>10</b>	0	0
Calcium	ppm	ASTM D5185m	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>3056</b>	2791	2875
Zinc	ppm	ASTM D5185m	<b>4</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>0</b>	0	0

## CONTAMINANTS

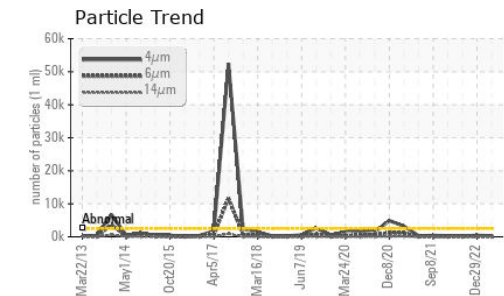
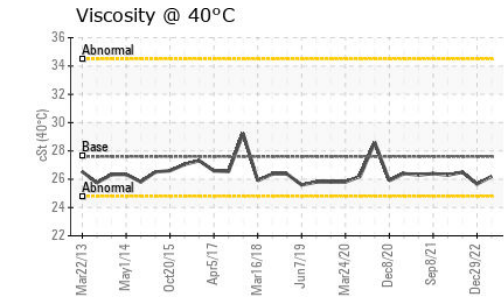
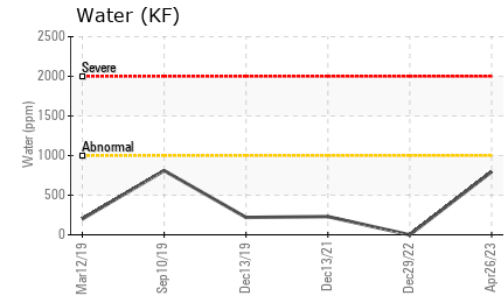
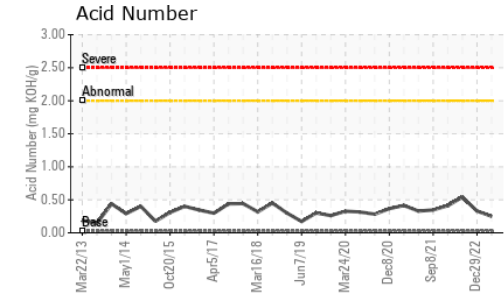
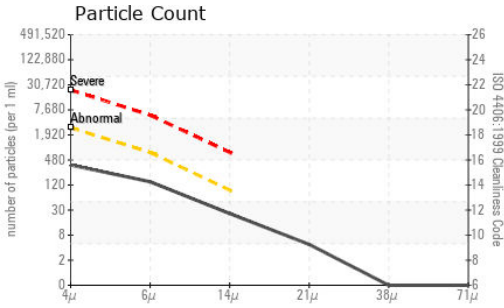
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	0
Sodium	ppm	ASTM D5185m	<b>1</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Water	%	ASTM D6304 >.1	<b>0.079</b>	---	---
ppm Water	ppm	ASTM D6304 >1000	<b>795.8</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.3</b>	---	---
Nitration	Abs/cm	*ASTM D7624	<b>8.8</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	<b>191.9</b>	---	---



# OIL ANALYSIS REPORT



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0784110 **Received** : 26 May 2023  
**Lab Number** : 05858549 **Tested** : 31 May 2023  
**Unique Number** : 10493014 **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)

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>320</b>	436	263
Particles >6µm	ASTM D7647	>640	<b>127</b>	88	95
Particles >14µm	ASTM D7647	>80	<b>22</b>	8	17
Particles >21µm	ASTM D7647	>20	<b>4</b>	2	6
Particles >38µm	ASTM D7647	>4	<b>0</b>	1	2
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>15/14/12</b>	16/14/10	15/14/11

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414		<b>227.6</b>	---	---
Acid Number (AN)	mg KOH/g ASTM D8045	0.03	<b>0.25</b>	0.33	0.54

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar *Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar *Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar *Visual	>.1	<b>NEG</b>	NEG	NEG
Free Water	scalar *Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	27.6	<b>26.2</b>	25.66	26.5
ASTM Color	scalar *ASTM D1500		<b>7.5</b>	L7.5	>8.0

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

