



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

## AOM1 PLANT PLUS

Machine Id

## 3-LBR-01 AF3 - STEAM TURBINE OIL

Component

Steam Turbine

Fluid

CHEVRON GST OIL ISO 32 (--- GAL)

### DIAGNOSIS

#### ▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

There is a high amount of particulates present in the oil. MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present.

#### Fluid Condition

The AN level is acceptable for this fluid. Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0930107	---	---
Sample Date	Client Info		20 Jun 2024	---	---
Machine Age	mls	Client Info	0	---	---
Oil Age	mls	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

### WEAR METALS

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

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	0	---	---
Magnesium	ppm	ASTM D5185m	0	---	---
Calcium	ppm	ASTM D5185m	0	---	---
Phosphorus	ppm	ASTM D5185m	0	---	---
Zinc	ppm	ASTM D5185m	0	---	---
Sulfur	ppm	ASTM D5185m	878	---	---

### CONTAMINANTS

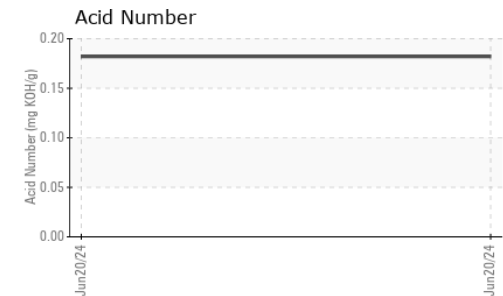
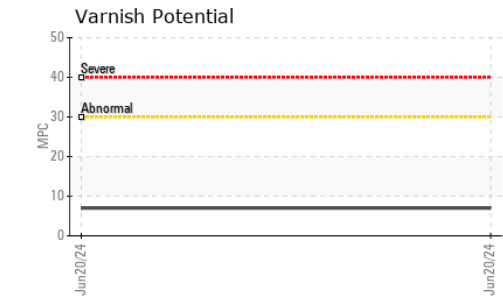
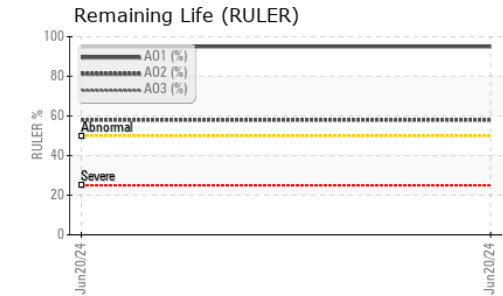
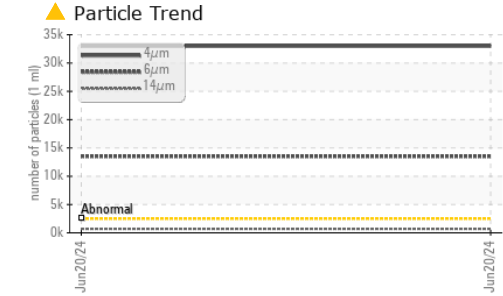
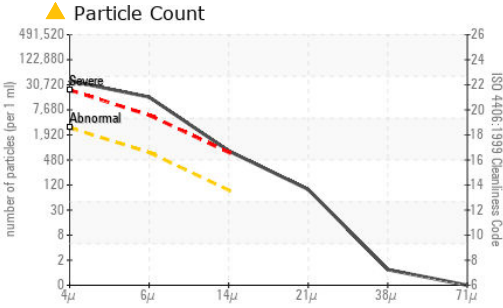
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	---	---
Sodium	ppm	ASTM D5185m	1	---	---
Potassium	ppm	ASTM D5185m >20	0	---	---
Water	%	ASTM D6304 >0.03	0.001	---	---
ppm Water	ppm	ASTM D6304 >300	10	---	---

### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 32986	---	---
Particles >6µm	ASTM D7647	>640	▲ 13516	---	---
Particles >14µm	ASTM D7647	>80	▲ 694	---	---
Particles >21µm	ASTM D7647	>20	▲ 83	---	---
Particles >38µm	ASTM D7647	>4	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 22/21/17	---	---



# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.182</b>	---	---
Anti-Oxidant 1	%	ASTM D6971	<b>95</b>	---	---
Anti-Oxidant 2	%	ASTM D6971	<b>58</b>	---	---
MPC Varnish Potential	Scale	ASTM D7843	<b>7</b>	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---
Emulsified Water	scalar	*Visual	>0.03	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	30.4	<b>31.0</b>	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color					
Bottom					
MPC					



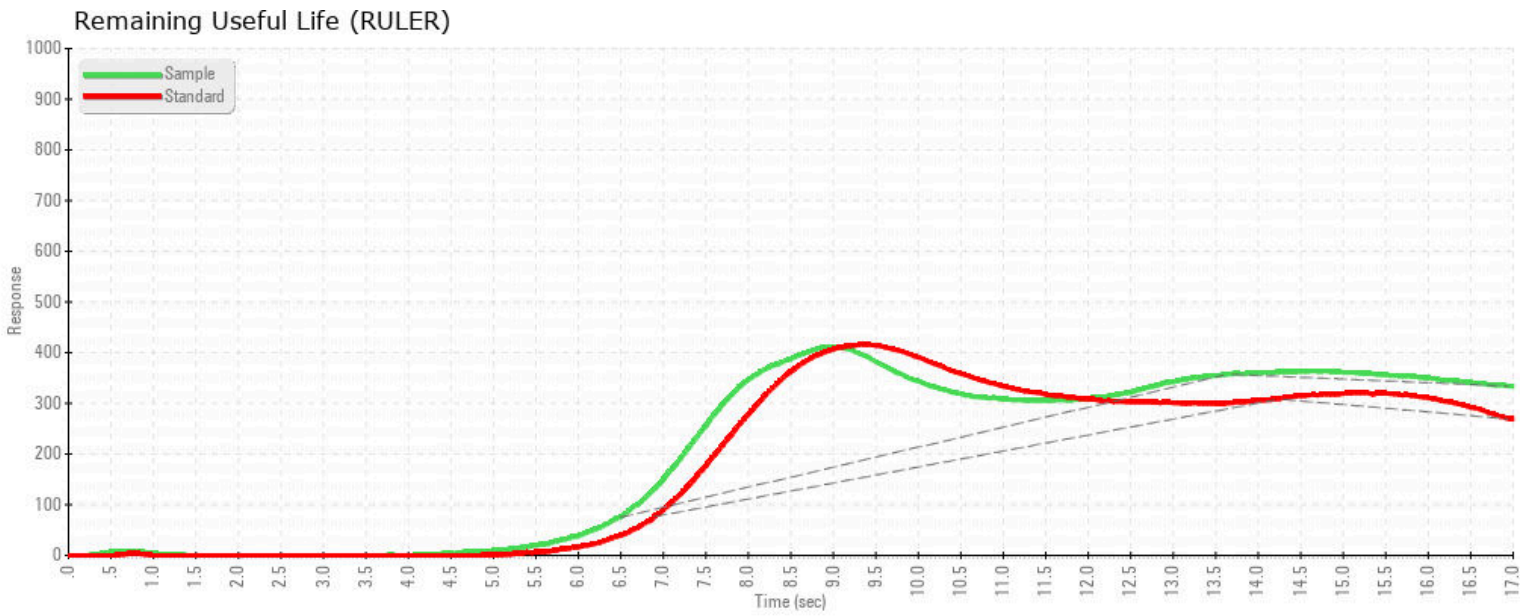
**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0930107 **Received** : 25 Jun 2024  
**Lab Number** : **06219734** **Tested** : 05 Jul 2024  
**Unique Number** : 11097931 **Diagnosed** : 05 Jul 2024 - Doug Bogart  
**Test Package** : AOM 1 ( Additional Tests: KF )

**SRP - Salt River Project**  
 SRP Mail Station POB003, P.O. Box 52025  
 Phoenix, AZ  
 US 85072-2025  
 Contact: Chris Keisling  
 chris.keisling@srpnet.com

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)



MPC (Varnish Test)



Sample Color & Clarity



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