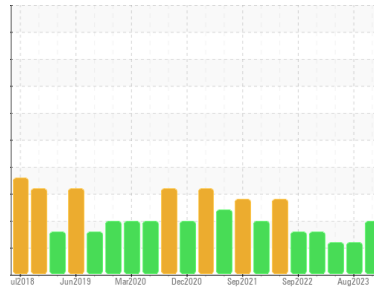


# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**Benedum Plant**  
 Machine Id  
**B-8 (S/N 1-41104453753)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**TULCO LUBSOIL SYN RL WI 100 (250 GAL)**

## DIAGNOSIS

**Recommendation**  
 We recommend you service the filters on this component if applicable. 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.

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>TO90003248</b>	TO90002200	TO90002326
Sample Date	Client Info	<b>14 Mar 2024</b>	14 Aug 2023	15 Mar 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >8	<b>10</b>	8	4
Chromium	ppm	ASTM D5185m >2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >3	<b>1</b>	0	1
Lead	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >8	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</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	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>2</b>	1	2
Calcium	ppm	ASTM D5185m	<b>2</b>	2	4
Phosphorus	ppm	ASTM D5185m 1500	<b>1283</b>	676	668
Zinc	ppm	ASTM D5185m	<b>0</b>	0	5
Sulfur	ppm	ASTM D5185m	<b>11</b>	37	108

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<b>1</b>	2	1
Sodium	ppm	ASTM D5185m	<b>3</b>	5	3
Potassium	ppm	ASTM D5185m >20	<b>3</b>	1	<1
Water	%	ASTM D6304 >2.26	<b>0.015</b>	0.035	0.006
ppm Water	ppm	ASTM D6304 >22600	<b>156</b>	355.8	63.4

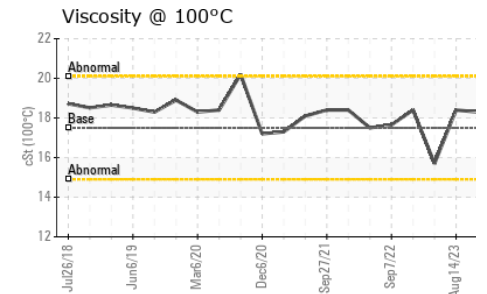
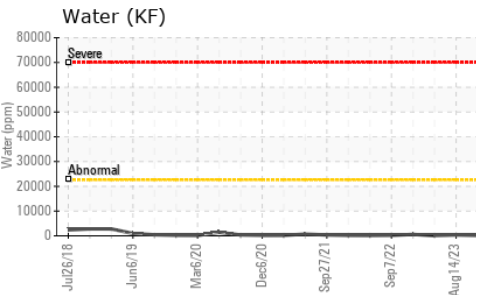
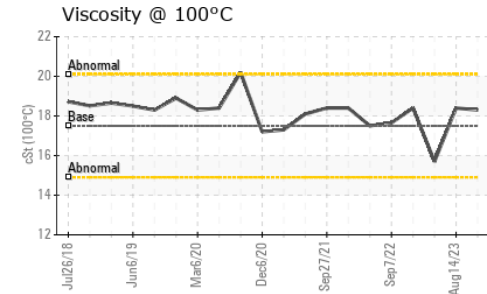
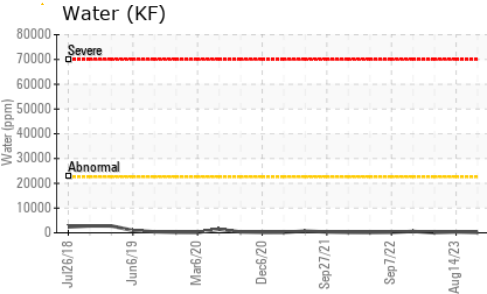
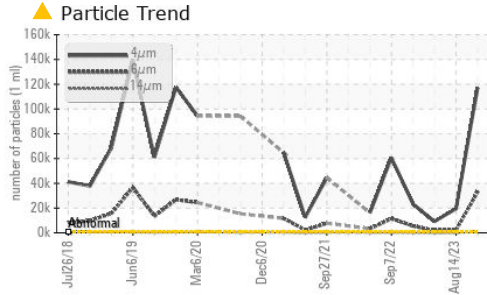
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >640	<b>▲ 117038</b>	▲ 19539	▲ 9142
Particles >6µm	ASTM D7647 >320	<b>▲ 32902</b>	▲ 2374	▲ 1911
Particles >14µm	ASTM D7647 >80	<b>▲ 1032</b>	37	65
Particles >21µm	ASTM D7647 >20	<b>▲ 144</b>	7	10
Particles >38µm	ASTM D7647 >4	<b>2</b>	0	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >16/15/13	<b>▲ 24/22/17</b>	▲ 21/18/12	▲ 20/18/13

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974 0.04	<b>0.09</b>	0.017	0.014

# OIL ANALYSIS REPORT

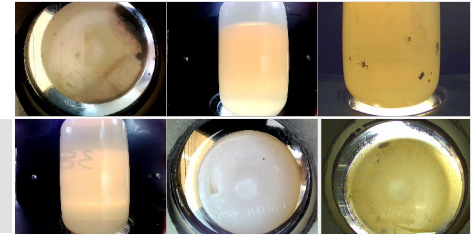


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	97	106	104
Visc @ 100°C	cSt	ASTM D445	17.5	18.3	18.4
Viscosity Index (VI)	Scale	ASTM D2270	198	192	197

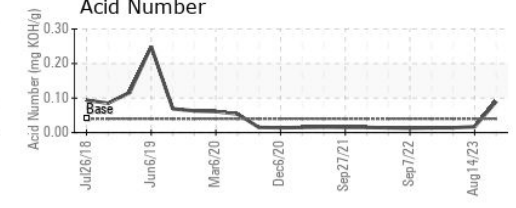
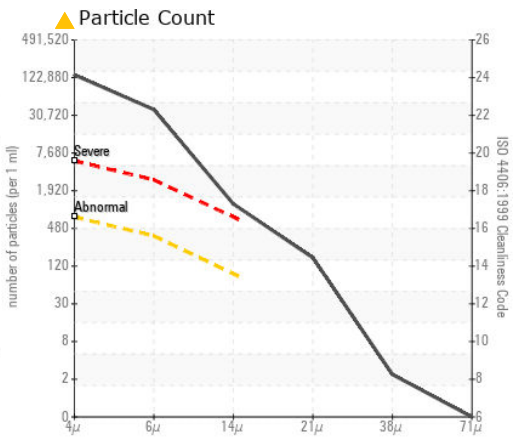
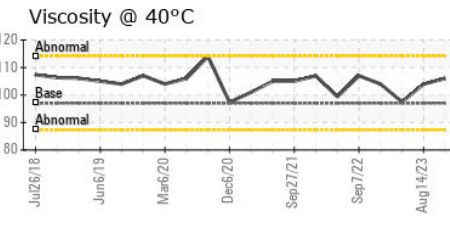
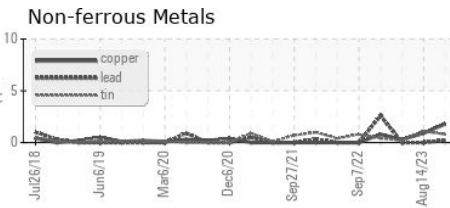
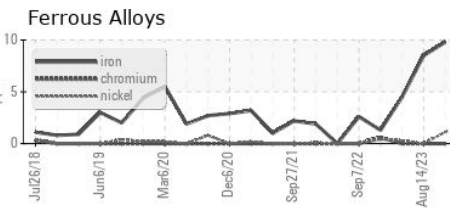
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



Bottom

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO90003248 **Received** : 16 Apr 2024  
**Lab Number** : 06150509 **Tested** : 17 Apr 2024  
**Unique Number** : 10980587 **Diagnosed** : 18 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, VI )

**TARGA RESOURCES - BENEDUM**  
 1757 COUNTY ROAD 250  
 MIDKIFF, TX 79755  
 Contact: SCOOTER HAMPTON  
 shampton@targaresources.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)

T: x:

F: x: