

# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id  
**GEA C-161**

Component  
**Screw Compressor**

Fluid  
**TULCO LUBSOIL SYN RL WI 100 (300 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 silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>TO90003221</b>	---	---
Sample Date	Client Info	<b>13 Feb 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>60	<b>6</b>	---	---
Chromium ppm ASTM D5185m	>4	<b>&lt;1</b>	---	---
Nickel ppm ASTM D5185m		<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>5	<b>0</b>	---	---
Lead ppm ASTM D5185m	>10	<b>0</b>	---	---
Copper ppm ASTM D5185m	>30	<b>0</b>	---	---
Tin ppm ASTM D5185m	>15	<b>4</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>0</b>	---	---
Barium ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum ppm ASTM D5185m		<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium ppm ASTM D5185m		<b>2</b>	---	---
Calcium ppm ASTM D5185m		<b>37</b>	---	---
Phosphorus ppm ASTM D5185m	1500	<b>326</b>	---	---
Zinc ppm ASTM D5185m		<b>17</b>	---	---
Sulfur ppm ASTM D5185m		<b>0</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>4</b>	---	---
Sodium ppm ASTM D5185m		<b>0</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>0</b>	---	---
Water % ASTM D6304	>2.26	<b>0.019</b>	---	---
ppm Water ppm ASTM D6304	>22600	<b>194</b>	---	---

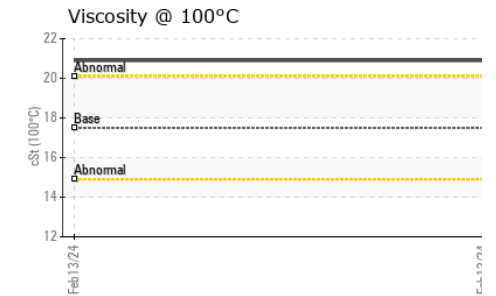
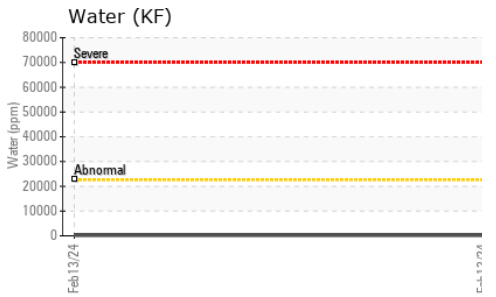
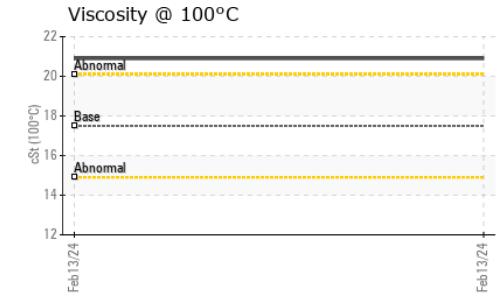
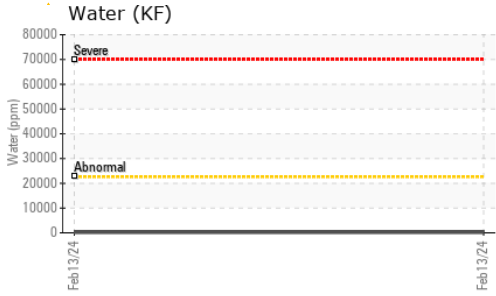
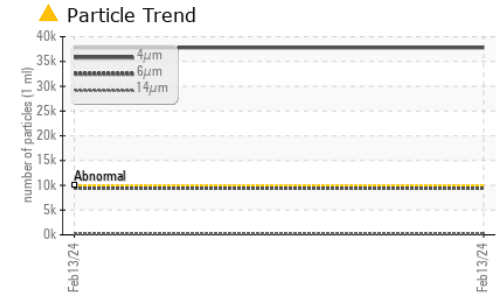
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	<b>▲ 37788</b>	---	---
Particles >6µm ASTM D7647	>2500	<b>▲ 9443</b>	---	---
Particles >14µm ASTM D7647	>320	<b>191</b>	---	---
Particles >21µm ASTM D7647	>80	<b>17</b>	---	---
Particles >38µm ASTM D7647	>20	<b>1</b>	---	---
Particles >71µm ASTM D7647	>4	<b>1</b>	---	---
Oil Cleanliness ISO 4406 (c)	>20/18/15	<b>▲ 22/20/15</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.04	<b>0.045</b>	---	---

# OIL ANALYSIS REPORT



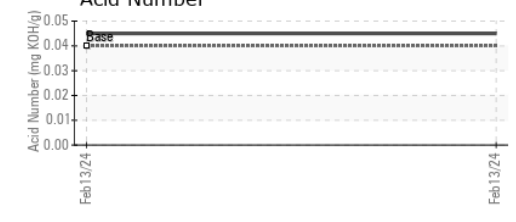
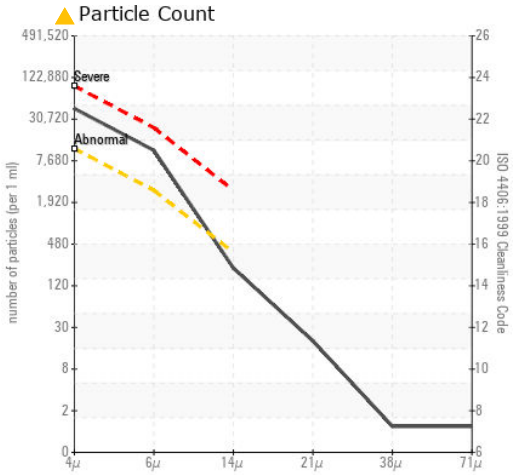
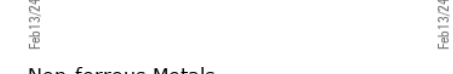
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
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	>2.26	<b>NEG</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	97	<b>98.1</b>	---	---
Visc @ 100°C	cSt	ASTM D445	17.5	<b>20.9</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270	198	<b>240</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color		no image	no image
Bottom		no image	no image

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO90003221 **Received** : 27 Feb 2024  
**Lab Number** : **06101674** **Tested** : 28 Feb 2024  
**Unique Number** : 10899904 **Diagnosed** : 29 Feb 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**KINETIK HOLDINGS - EAST TOYAH**  
 49 COUNTY RD 419  
 PECOS, TX  
 US 79772  
 Contact: Service Manager

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:  
F: