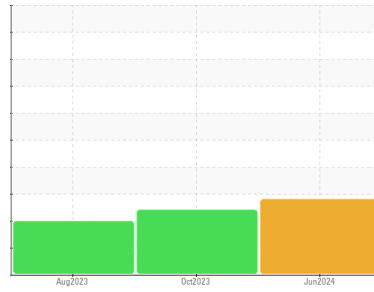


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

[TO10002639]

Machine Id

NORTH COMP 21000-50-01 (S/N 1107)

Component

Compressor

Fluid

TULCO LUBSOIL SYNTHETIC COMPRESSOR 46 (--- 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. Moderate concentration of visible dirt/debris 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>TO10003286</b>	TO10002645	TO10002542
Sample Date	Client Info	<b>18 Jun 2024</b>	31 Oct 2023	24 Aug 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	6000
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 >50	<b>7</b>	6	30
Chromium ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel ppm	ASTM D5185m >3	<b>0</b>	1	<1
Titanium ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Lead ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Copper ppm	ASTM D5185m >50	<b>20</b>	5	38
Tin ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
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	0
Barium ppm	ASTM D5185m	<b>0</b>	0	2
Molybdenum ppm	ASTM D5185m	<b>0</b>	0	0
Manganese ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Magnesium ppm	ASTM D5185m	<b>16</b>	0	<1
Calcium ppm	ASTM D5185m	<b>18</b>	110	3
Phosphorus ppm	ASTM D5185m 74	<b>67</b>	92	55
Zinc ppm	ASTM D5185m	<b>44</b>	0	38
Sulfur ppm	ASTM D5185m 1000	<b>3167</b>	1124	1538

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	<b>0</b>	<1	0
Sodium ppm	ASTM D5185m	<b>2</b>	5	0
Potassium ppm	ASTM D5185m >20	<b>3</b>	<1	<1
Water %	ASTM D6304 >0.05	<b>0.038</b>	0.014	▲ 0.368
ppm Water	ASTM D6304 >500	<b>389</b>	147.8	▲ 3680

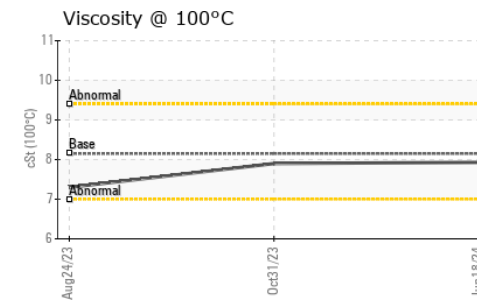
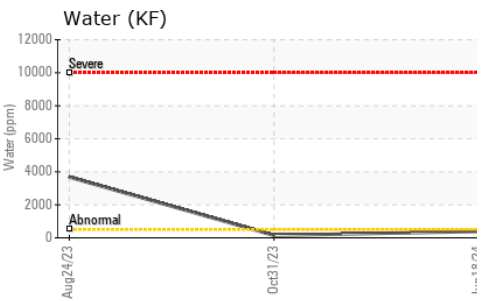
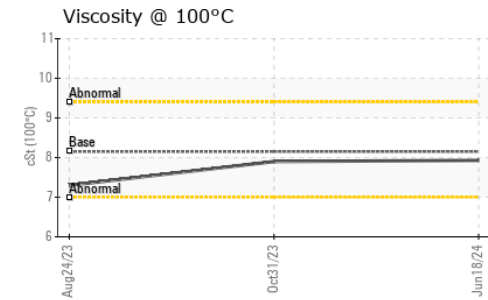
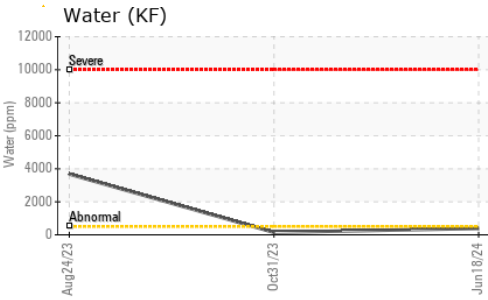
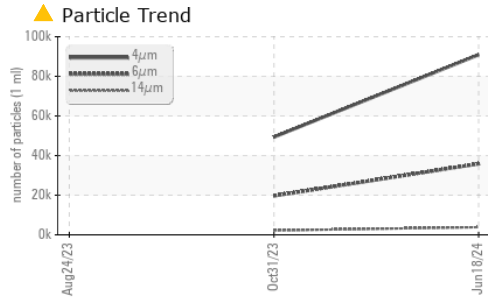
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>90927</b>	49366	---
Particles >6µm	ASTM D7647 >1300	▲ <b>35867</b>	▲ 19686	---
Particles >14µm	ASTM D7647 >80	▲ <b>3844</b>	▲ 2178	---
Particles >21µm	ASTM D7647 >20	▲ <b>1101</b>	▲ 601	---
Particles >38µm	ASTM D7647 >4	▲ <b>58</b>	▲ 29	---
Particles >71µm	ASTM D7647 >3	▲ <b>4</b>	▲ 4	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ <b>24/22/19</b>	▲ 23/21/18	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.236	<b>0.31</b>	0.29	1.40

# OIL ANALYSIS REPORT



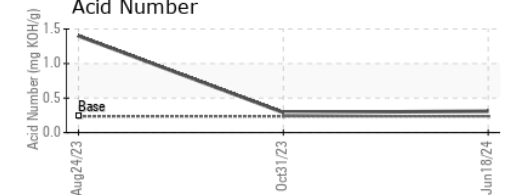
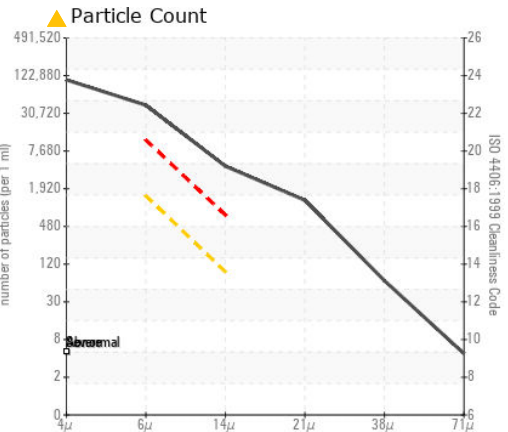
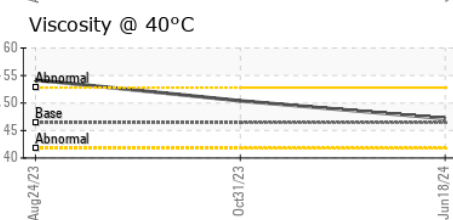
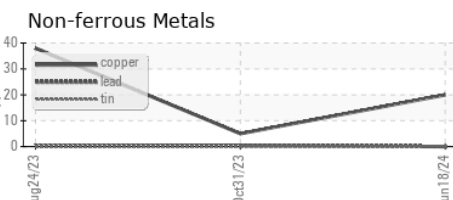
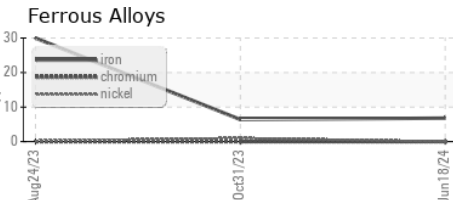
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.44	47.18	50.4
Visc @ 100°C	cSt	ASTM D445	8.15	7.93	7.9
Viscosity Index (VI)	Scale	ASTM D2270	149	138	125

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10003286 **Received** : 20 Jun 2024  
**Lab Number** : 06216230 **Tested** : 24 Jun 2024  
**Unique Number** : 11089094 **Diagnosed** : 24 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**WEBCO-STAR CENTER**  
 201 S. WOODLAND DR.  
 SAND SPRINGS, OK  
 US 74063

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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