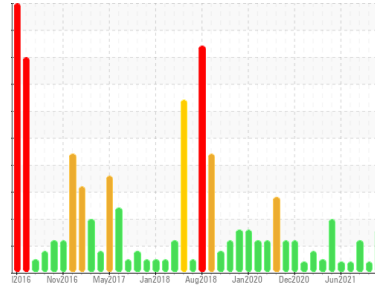


Machine Id  
**COMP 3 (S/N 1001)**

Component  
**Air Compressor**

Fluid  
**TULCO LUBSOIL SYN FG COMPRESSOR 46 (45 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.

### 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>TO40000351</b>	TO50000253	TO50000303
Sample Date	Client Info	<b>21 Mar 2024</b>	22 Sep 2021	23 Aug 2021
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ATTENTION

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	<1
Chromium	ppm	ASTM D5185m >4	0	0
Nickel	ppm	ASTM D5185m >4	<1	<1
Titanium	ppm	ASTM D5185m >3	0	0
Silver	ppm	ASTM D5185m >2	0	0
Aluminum	ppm	ASTM D5185m >10	<1	0
Lead	ppm	ASTM D5185m >20	0	0
Copper	ppm	ASTM D5185m >40	6	8
Tin	ppm	ASTM D5185m >5	<1	0
Antimony	ppm	ASTM D5185m	---	<1
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	<1	0
Magnesium	ppm	ASTM D5185m	<1	0
Calcium	ppm	ASTM D5185m	0	0
Phosphorus	ppm	ASTM D5185m 325	13	85
Zinc	ppm	ASTM D5185m	76	95
Sulfur	ppm	ASTM D5185m	0	78

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	0
Sodium	ppm	ASTM D5185m	1	0
Potassium	ppm	ASTM D5185m >20	<1	0
Water	%	ASTM D6304 >0.6	0.003	0.003
ppm Water	ppm	ASTM D6304 >6000	29	26.7

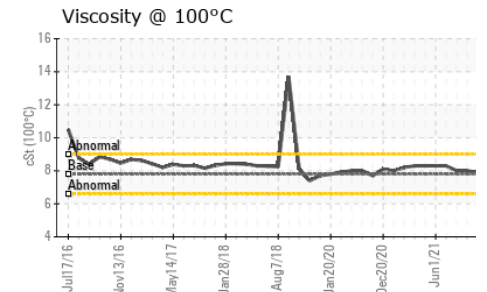
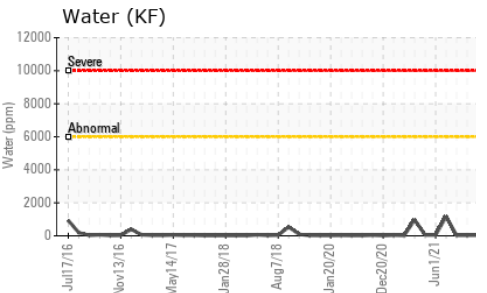
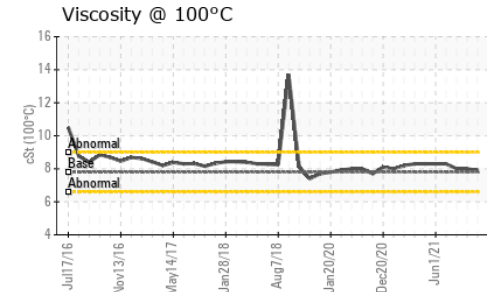
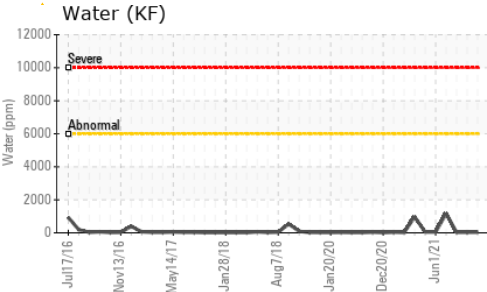
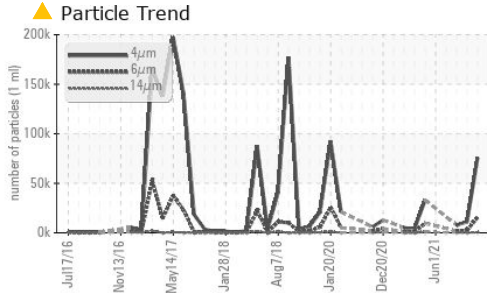
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>75547</b>	11132	7944
Particles >6µm	ASTM D7647 >1300	▲ <b>15776</b>	▲ 2536	● 1686
Particles >14µm	ASTM D7647 >80	▲ <b>571</b>	58	● 159
Particles >21µm	ASTM D7647 >20	▲ <b>118</b>	13	● 30
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) >--/17/13	▲ <b>23/21/16</b>	▲ 21/19/13	● 20/18/14

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.8	<b>0.29</b>	0.276

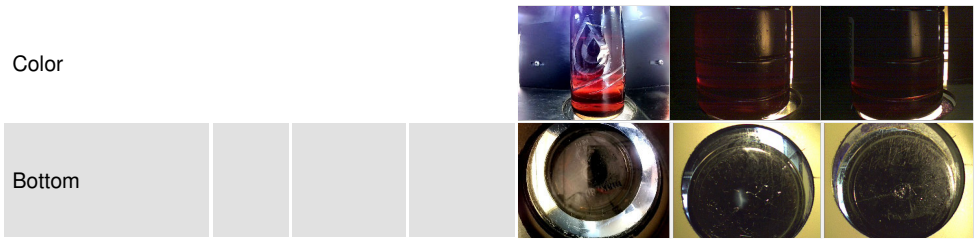
# OIL ANALYSIS REPORT



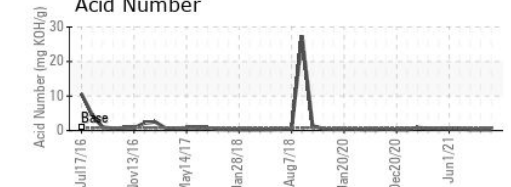
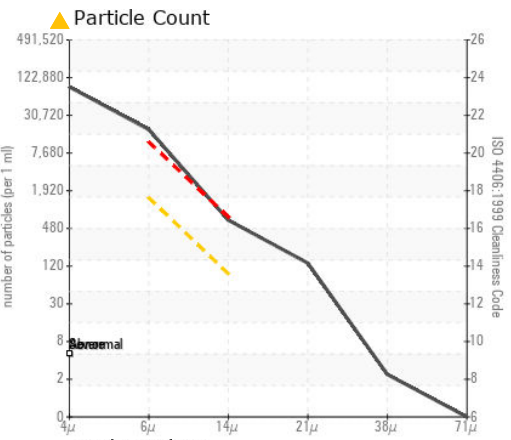
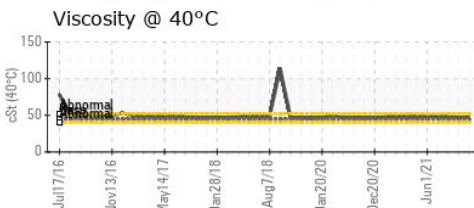
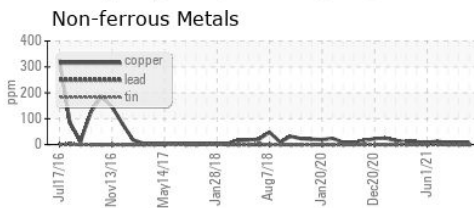
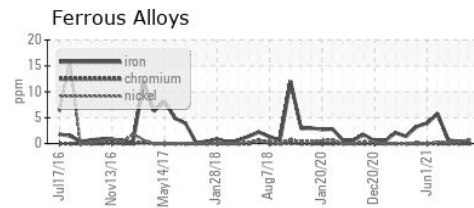
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.8	47.5	47.0
Visc @ 100°C	cSt	ASTM D445	7.8	7.9	8
Viscosity Index (VI)	Scale	ASTM D2270	146	136	142

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO40000351  
**Lab Number** : 06132043  
**Unique Number** : 10951508  
**Test Package** : IND 2 ( Additional Tests: KF , KV100, PrtCount, VI )

**Received** : 28 Mar 2024  
**Tested** : 29 Mar 2024  
**Diagnosed** : 02 Apr 2024 - Angela Borella

**FRESH EXPRESS - MORROW**  
 1361 SOUTHERN ROAD  
 MORROW, GA  
 US 30260  
 Contact: FERNANDO VILLASENOR  
 fvillasenor@freshexpress.com  
 T: (678)422-4080

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)