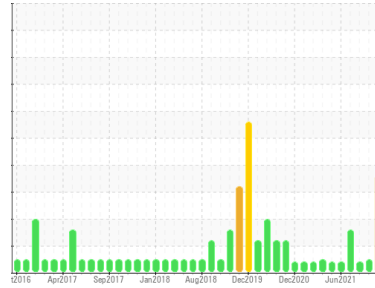


Machine Id
COMP 4 (S/N 1001)

Component
Air Compressor

Fluid
TULCO LUBSOIL SYN FG COMPRESSOR 46 (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor.

Wear

An increase in the iron level is noted. An increase in the copper level is noted. Bearing wear is indicated.

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		TO40000352	TO50000254	TO50000304
Sample Date	Client Info		21 Mar 2024	22 Sep 2021	23 Aug 2021
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	30	2	1
Chromium	ppm	ASTM D5185m >4	0	0	0
Nickel	ppm	ASTM D5185m >4	<1	0	0
Titanium	ppm	ASTM D5185m >3	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >10	<1	0	<1
Lead	ppm	ASTM D5185m >20	0	0	0
Copper	ppm	ASTM D5185m >40	26	9	5
Tin	ppm	ASTM D5185m >5	<1	<1	0
Antimony	ppm	ASTM D5185m	---	<1	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m	<1	0	0
Calcium	ppm	ASTM D5185m	0	0	0
Phosphorus	ppm	ASTM D5185m 325	52	113	153
Zinc	ppm	ASTM D5185m	173	142	55
Sulfur	ppm	ASTM D5185m	0	86	1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	0	<1
Sodium	ppm	ASTM D5185m	2	0	0
Potassium	ppm	ASTM D5185m >20	<1	0	0
Water	%	ASTM D6304 >0.6	0.002	0.003	0.003
ppm Water	ppm	ASTM D6304 >6000	22	34.5	26.7

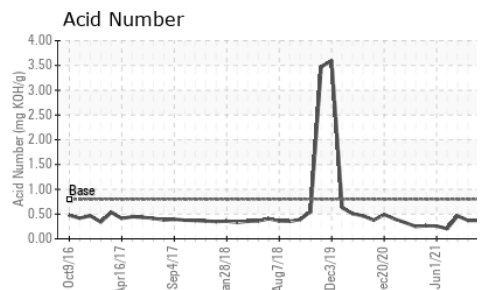
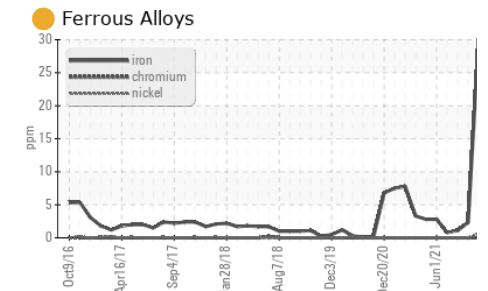
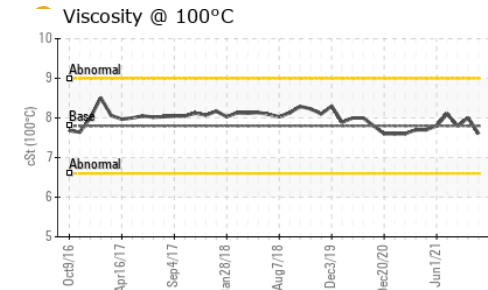
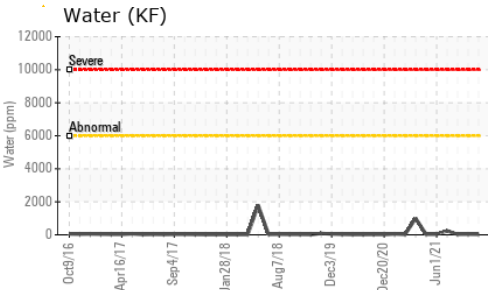
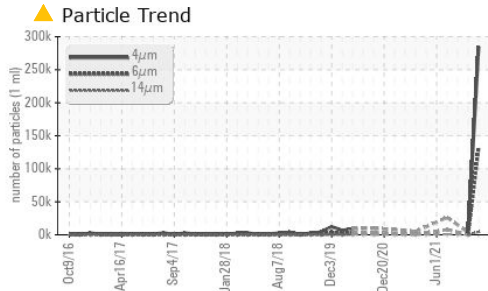
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		284519	3811	---
Particles >6µm	ASTM D7647 >1300		132484	514	---
Particles >14µm	ASTM D7647 >80		4414	25	---
Particles >21µm	ASTM D7647 >20		673	8	---
Particles >38µm	ASTM D7647 >4		12	1	---
Particles >71µm	ASTM D7647 >3		0	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		25/24/19	19/16/12	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.8	0.37	0.370	0.461

OIL ANALYSIS REPORT

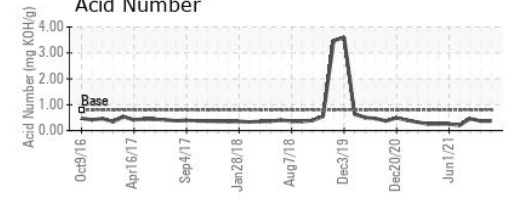
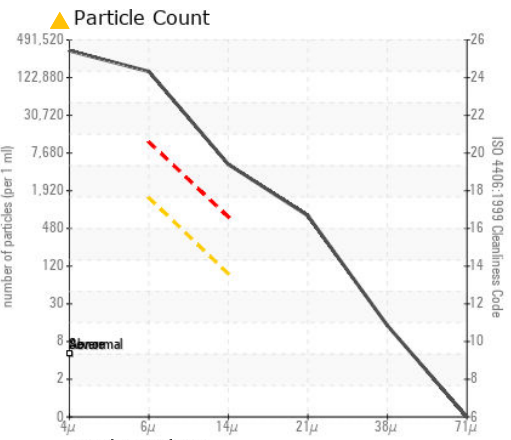
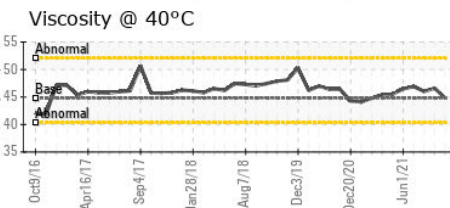
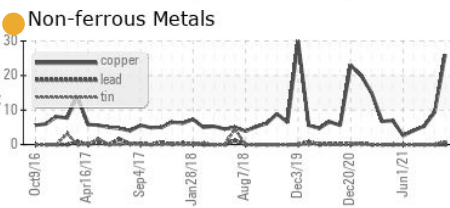
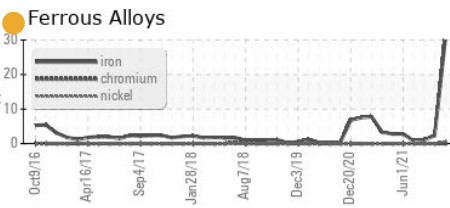


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.8	46.6	46.0
Visc @ 100°C	cSt	ASTM D445	7.8	8	7.8
Viscosity Index (VI)	Scale	ASTM D2270	146	143	139

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO40000352 **Received** : 28 Mar 2024
Lab Number : 06132042 **Tested** : 29 Mar 2024
Unique Number : 10951507 **Diagnosed** : 02 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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 F: x:

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)