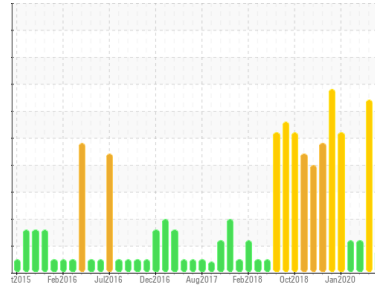




Machine Id
COMP 2 (S/N 1029)

Component
Air Compressor

Fluid
TULCO LUBSOIL SYN FG COMPRESSOR 46 (48 GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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		TO40000350	TO4003303	TO4003123
Sample Date	Client Info		21 Mar 2024	26 Jan 2021	24 Jun 2020
Machine Age	hrs	Client Info	0	50214	46572
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	Not Changd
Sample Status			ATTENTION	SEVERE	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	0	1	<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	0
Lead	ppm	ASTM D5185m >20	0	<1	<1
Copper	ppm	ASTM D5185m >40	8	▲ 40	18
Tin	ppm	ASTM D5185m >5	<1	<1	0
Antimony	ppm	ASTM D5185m	---	0	3
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	<1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m	<1	<1	0
Calcium	ppm	ASTM D5185m	<1	<1	0
Phosphorus	ppm	ASTM D5185m 325	27	100	75
Zinc	ppm	ASTM D5185m	13	207	85
Sulfur	ppm	ASTM D5185m	15	14	9

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	<1	0
Sodium	ppm	ASTM D5185m	1	13	<1
Potassium	ppm	ASTM D5185m >20	<1	2	0
Water	%	ASTM D6304 >0.6	0.002	0.038	0.002
ppm Water	ppm	ASTM D6304 >6000	16	389.5	22.8

FLUID CLEANLINESS

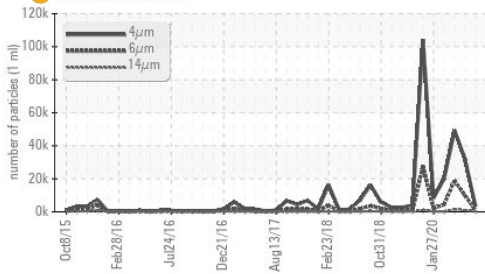
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		3355	31857	49307
Particles >6µm	ASTM D7647 >1300		1006	▲ 9662	▲ 18851
Particles >14µm	ASTM D7647 >80		● 84	▲ 959	▲ 1426
Particles >21µm	ASTM D7647 >20		22	▲ 245	▲ 274
Particles >38µm	ASTM D7647 >4		1	▲ 7	3
Particles >71µm	ASTM D7647 >3		0	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13		● 19/17/14	▲ 22/20/17	▲ 23/21/18

FLUID DEGRADATION

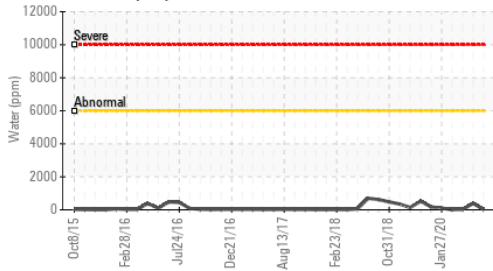
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.8	0.49	▲ 8.589	0.320

OIL ANALYSIS REPORT

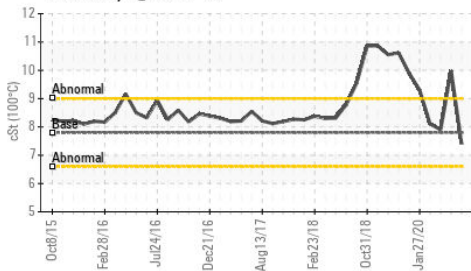
Particle Trend



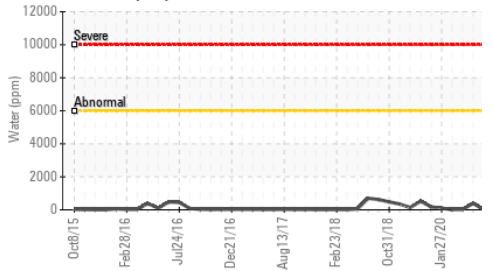
Water (KF)



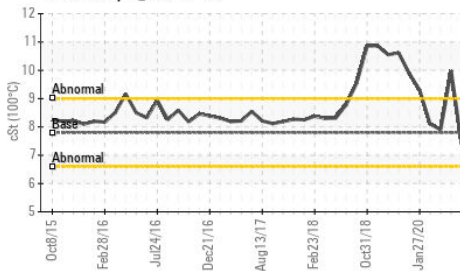
Viscosity @ 100°C



Water (KF)



Viscosity @ 100°C



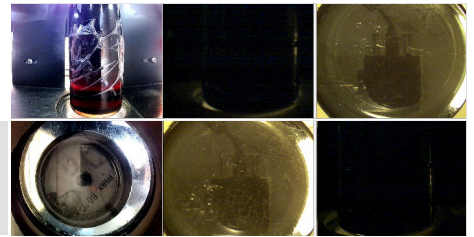
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	▲ 69.6	47.3
Visc @ 100°C	cSt	ASTM D445	7.8	▲ 9.98	7.9
Viscosity Index (VI)	Scale	ASTM D2270	146	126	137

SAMPLE IMAGES	method	limit/base	current	history1	history2
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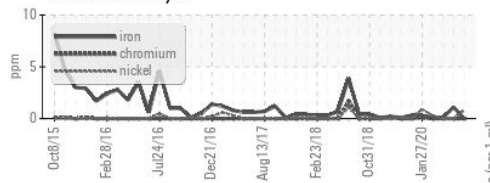
Color

Bottom

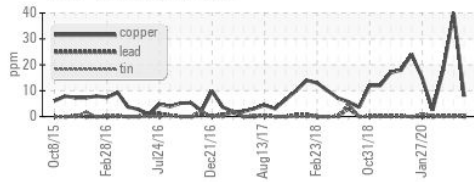


GRAPHS

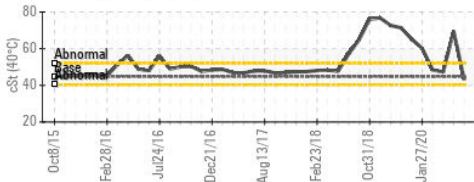
Ferrous Alloys



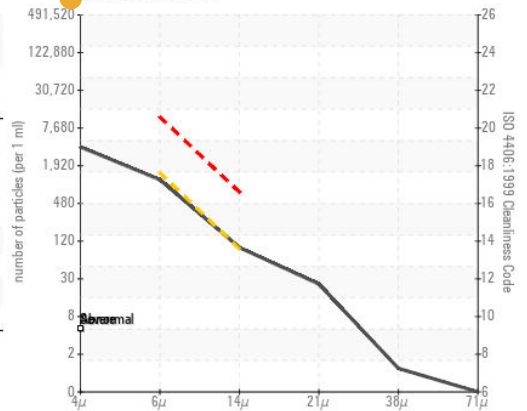
Non-ferrous Metals



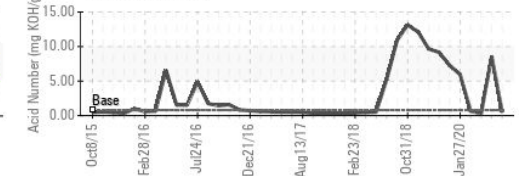
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : TO40000350

Lab Number : 06132039

Unique Number : 10951504

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

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)