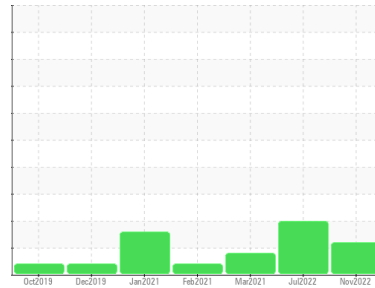
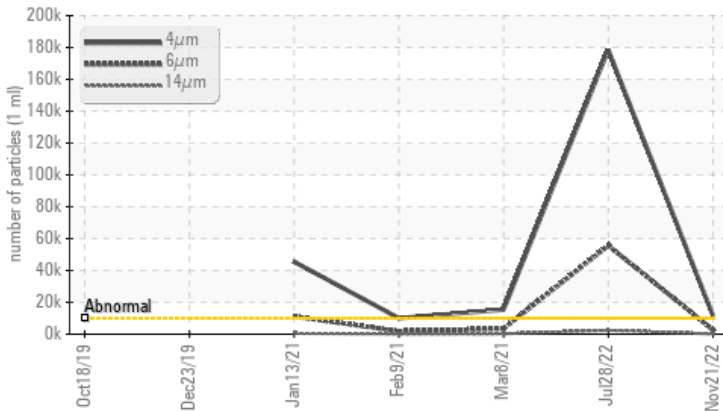


Machine Id
BOSS ARES 4 CTB-EOG (S/N 115378)
 Component
Compressor
 Fluid
TULCO LUBSOIL LPG WS 150 (10 GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ATTENTION
Particles >4µm	ASTM D7647	>10000	▲ 11598	▲ 178564	▲ 15347
Particles >6µm	ASTM D7647	>1300	▲ 2651	▲ 55612	▲ 3423
Oil Cleanliness	ISO 4406 (c)	>20/17/15	▲ 21/19/14	▲ 25/23/18	▲ 21/19/15

Customer Id: RICHOB
 Sample No.: TO90002715
 Lab Number: 05748008
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

28 Jul 2022 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



08 Mar 2021 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



09 Feb 2021 Diag: Don Baldrige

ISO

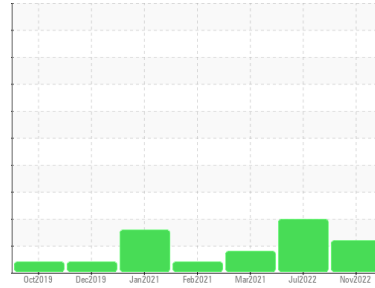


No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Machine Id
BOSS ARES 4 CTB-EOG (S/N 115378)
 Component
Compressor
 Fluid
TULCO LUBSOIL LPG WS 150 (10 GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. 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 suitable for further service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		TO90002715	TO90002551	TO90001306
Sample Date	Client Info		21 Nov 2022	28 Jul 2022	08 Mar 2021
Machine Age	hrs	Client Info	19066	15937	5832
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ATTENTION

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	1	1	0
Chromium	ppm	ASTM D5185m >10	<1	0	0
Nickel	ppm	ASTM D5185m	4	<1	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	<1	0	<1
Aluminum	ppm	ASTM D5185m >25	<1	<1	0
Lead	ppm	ASTM D5185m >25	0	1	0
Copper	ppm	ASTM D5185m >50	<1	<1	<1
Tin	ppm	ASTM D5185m >15	<1	2	<1
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	<1

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	5	2
Barium	ppm	ASTM D5185m 0	<1	0	0
Molybdenum	ppm	ASTM D5185m 0	0	<1	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m 0	<1	<1	0
Calcium	ppm	ASTM D5185m 0	4	3	0
Phosphorus	ppm	ASTM D5185m 0	67	333	12
Zinc	ppm	ASTM D5185m 0	2	<1	0
Sulfur	ppm	ASTM D5185m 0	56	68	0

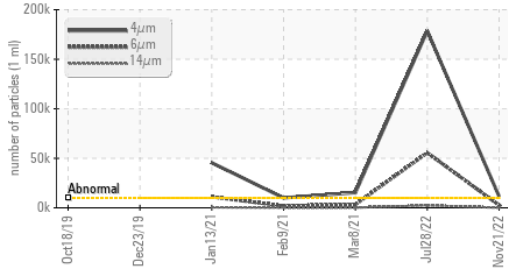
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	<1	1
Sodium	ppm	ASTM D5185m	13	27	7
Potassium	ppm	ASTM D5185m >20	<1	2	<1
Water	%	ASTM D6304 >2.26	0.469	0.723	0.572
ppm Water	ppm	ASTM D6304 >22600	4690	7230	5720

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 11598	▲ 178564	▲ 15347
Particles >6µm	ASTM D7647	>1300	▲ 2651	▲ 55612	▲ 3423
Particles >14µm	ASTM D7647	>320	107	▲ 2384	197
Particles >21µm	ASTM D7647	>80	17	▲ 266	44
Particles >38µm	ASTM D7647	>20	1	13	3
Particles >71µm	ASTM D7647	>4	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/17/15	▲ 21/19/14	▲ 25/23/18	▲ 21/19/15

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.068	0.26	0.03

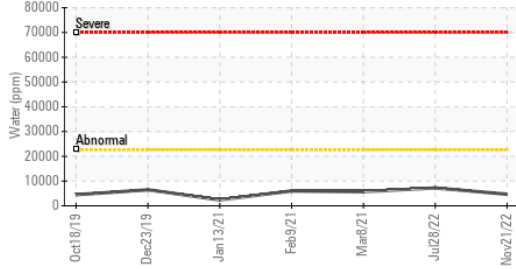
OIL ANALYSIS REPORT

▲ Particle Trend



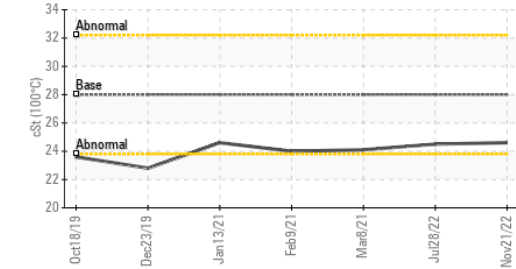
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

Water (KF)



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	132	141
Visc @ 100°C	cSt	ASTM D445	28	24.6	24.1
Viscosity Index (VI)	Scale	ASTM D2270	224	220	207

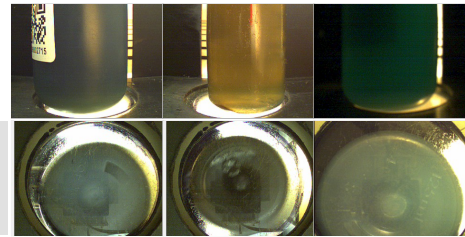
Viscosity @ 100°C



SAMPLE IMAGES	method	limit/base	current	history1	history2
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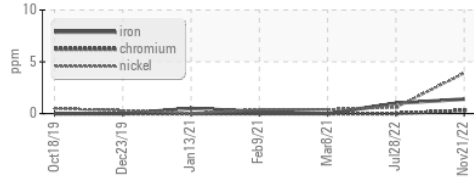
Color

Bottom

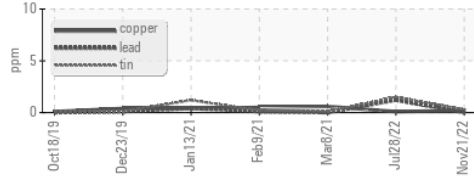


GRAPHS

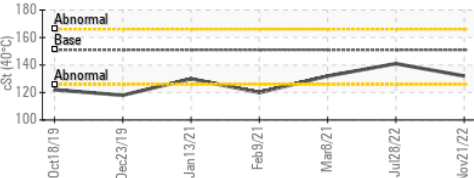
Ferrous Alloys



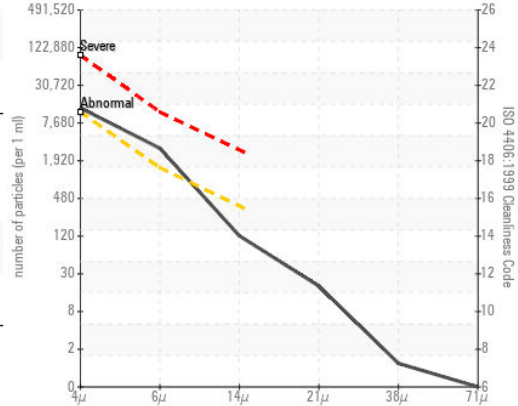
Non-ferrous Metals



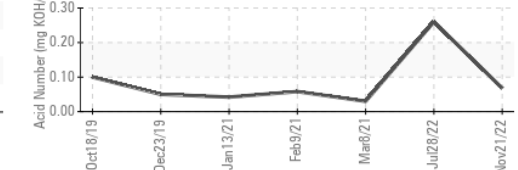
Viscosity @ 40°C



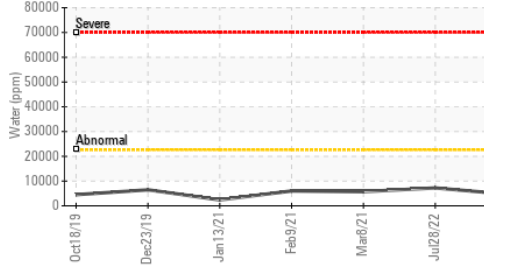
▲ Particle Count



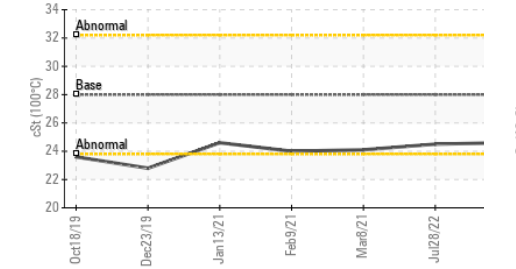
Acid Number



Water (KF)



Viscosity @ 100°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90002715 **Received** : 24 Jan 2023
Lab Number : 05748008 **Diagnosed** : 26 Jan 2023
Unique Number : 10307612 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

RICHARDS ENERGY COMPRESSION
 1629 WEST BENDER
 HOBBS, NM
 US 88240
 Contact: BILL RICHARDSON
 richardsenergy@windstream.net

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: