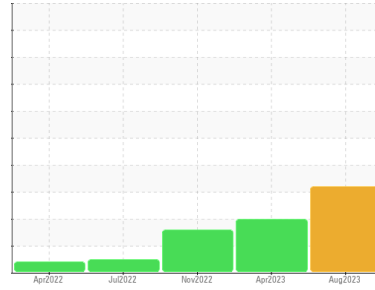
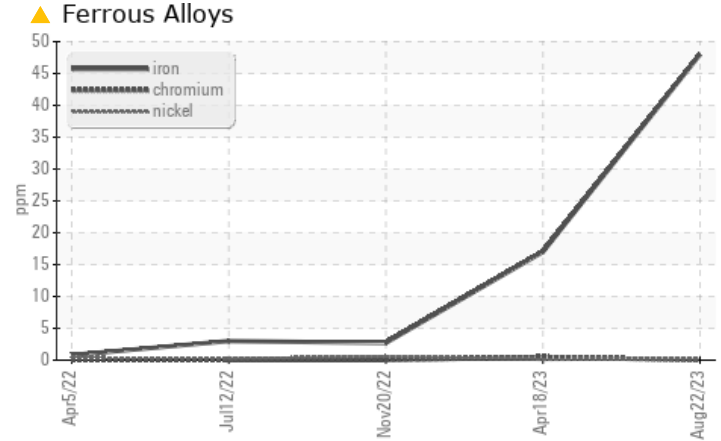
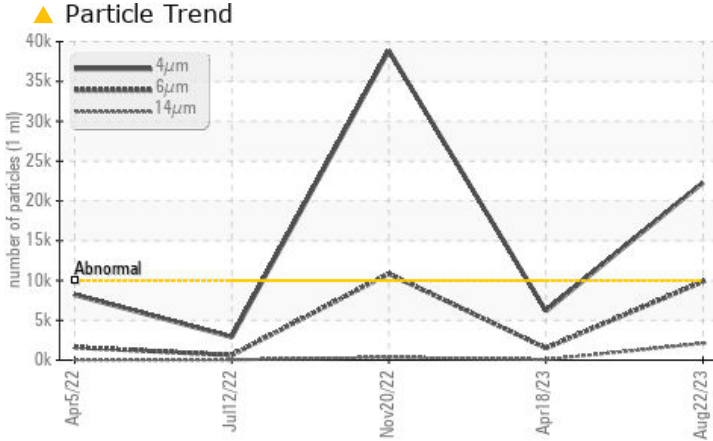


Area
COMPRESSOR STATIONS/ZENA AREA
 Machine Id
BRUNSON NORTH (S/N 5629X3118)
 Component
Compressor
 Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185m >50	▲ 48	17	3
Particles >4µm		ASTM D7647 >10000	▲ 22293	6165	▲ 38858
Particles >6µm		ASTM D7647 >1300	▲ 9871	▲ 1509	▲ 10848
Particles >14µm		ASTM D7647 >320	▲ 2097	74	▲ 351
Particles >21µm		ASTM D7647 >80	▲ 788	18	58
Particles >38µm		ASTM D7647 >20	▲ 45	1	2
Oil Cleanliness		ISO 4406 (c) >20/17/15	▲ 22/20/18	▲ 20/18/13	▲ 22/21/16

Customer Id: EOGMID
 Sample No.: TO60001259
 Lab Number: 05937895
 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

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

18 Apr 2023 Diag: Jonathan Hester

VISCOSITY



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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

[view report](#)



20 Nov 2022 Diag: Jonathan Hester

ISO



We recommend you service the filters on this component if applicable. 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](#)



12 Jul 2022 Diag: Don Baldrige

NORMAL



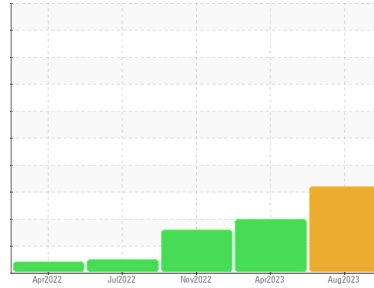
Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



Area
Machine Id
COMPRESSOR STATIONS/ZENA AREA
BRUNSON NORTH (S/N 5629X3118)

Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

An increase in the iron level is noted. All other 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 suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	TO60001259	TO60000851	TO60000160
Sample Date	Client Info	22 Aug 2023	18 Apr 2023	20 Nov 2022
Machine Age	hrs	32013	29260	25812
Oil Age	hrs	840	25812	1128
Oil Changed	Client Info	Changed	Oil Added	Oil Added
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	▲ 48	17	3
Chromium ppm	ASTM D5185m >10	0	<1	0
Nickel ppm	ASTM D5185m	<1	<1	<1
Titanium ppm	ASTM D5185m	0	0	0
Silver ppm	ASTM D5185m	0	0	0
Aluminum ppm	ASTM D5185m >25	3	0	<1
Lead ppm	ASTM D5185m >25	0	0	<1
Copper ppm	ASTM D5185m >50	0	0	0
Tin ppm	ASTM D5185m >15	1	2	2
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	9	<1	1
Barium ppm	ASTM D5185m 0	0	0	0
Molybdenum ppm	ASTM D5185m 0	0	0	<1
Manganese ppm	ASTM D5185m	<1	1	<1
Magnesium ppm	ASTM D5185m 0	5	1	1
Calcium ppm	ASTM D5185m 0	2	19	1
Phosphorus ppm	ASTM D5185m 0	20	▲ 29	208
Zinc ppm	ASTM D5185m 0	32	1	<1
Sulfur ppm	ASTM D5185m 0	147	419	988

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	0	2	<1
Sodium ppm	ASTM D5185m	5	166	20
Potassium ppm	ASTM D5185m >20	30	5	2
Water %	ASTM D6304 >2.26	0.549	1.07	0.638
ppm Water	ASTM D6304 >22600	5491.5	10700	6380

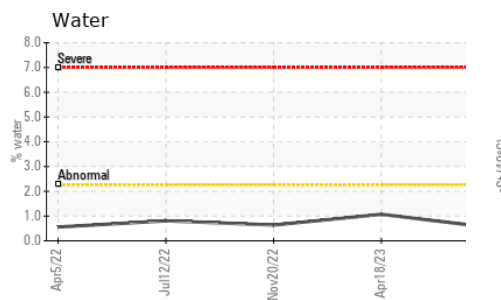
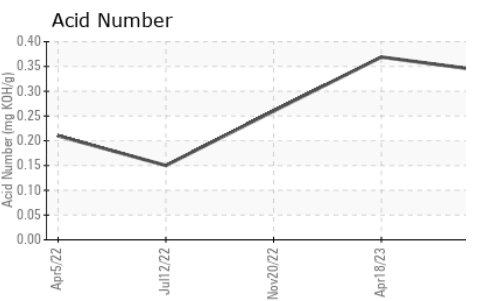
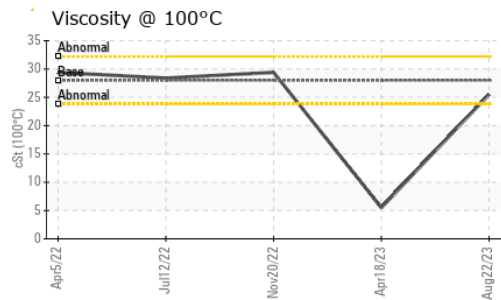
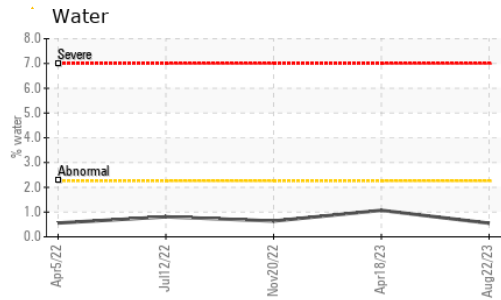
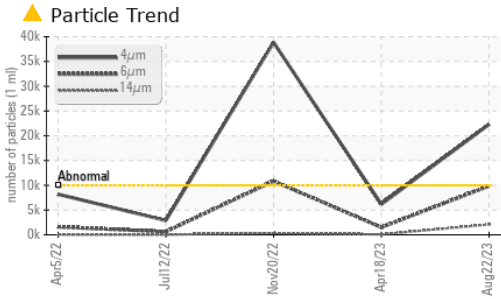
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 22293	6165	▲ 38858
Particles >6µm	ASTM D7647 >1300	▲ 9871	▲ 1509	▲ 10848
Particles >14µm	ASTM D7647 >320	▲ 2097	74	▲ 351
Particles >21µm	ASTM D7647 >80	▲ 788	18	58
Particles >38µm	ASTM D7647 >20	▲ 45	1	2
Particles >71µm	ASTM D7647 >4	2	0	0
Oil Cleanliness	ISO 4406 (c) >20/17/15	▲ 22/20/18	▲ 20/18/13	▲ 22/21/16

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.34	0.369	0.26

OIL ANALYSIS REPORT

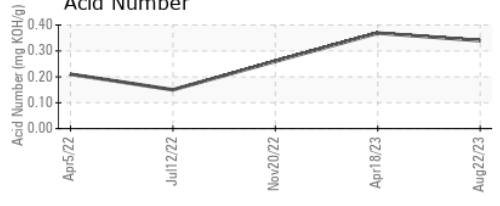
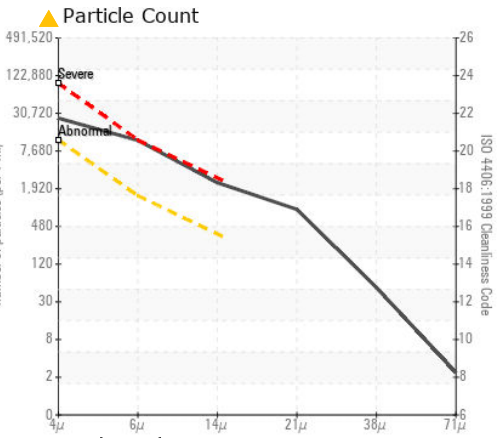
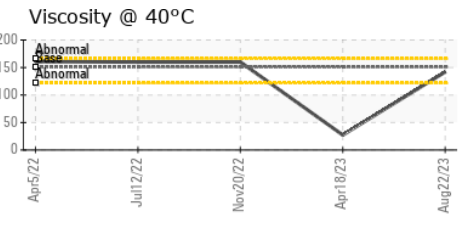
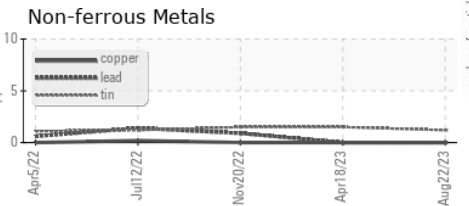
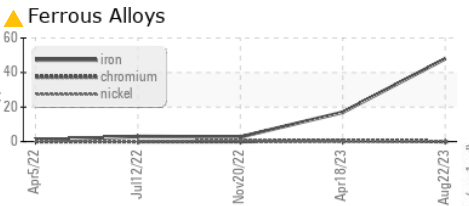


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	142	27.3
Visc @ 100°C	cSt	ASTM D445	28	25.5	5.5
Viscosity Index (VI)	Scale	ASTM D2270	224	215	143

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001259 **Received** : 29 Aug 2023
Lab Number : 05937895 **Diagnosed** : 31 Aug 2023
Unique Number : 10628507 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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 5509 CHAMPIONS DRIVE
 MIDLAND, TX
 US 79706
 Contact: HERMAN GARZA
 herman_garza@eogresources.com
 T: (432)686-3600
 F:

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)