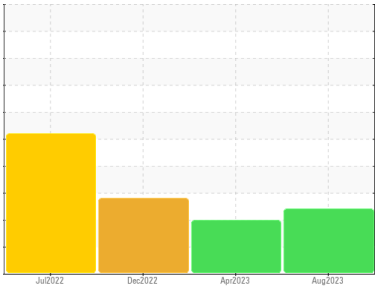
PROBLEM SUMMARY

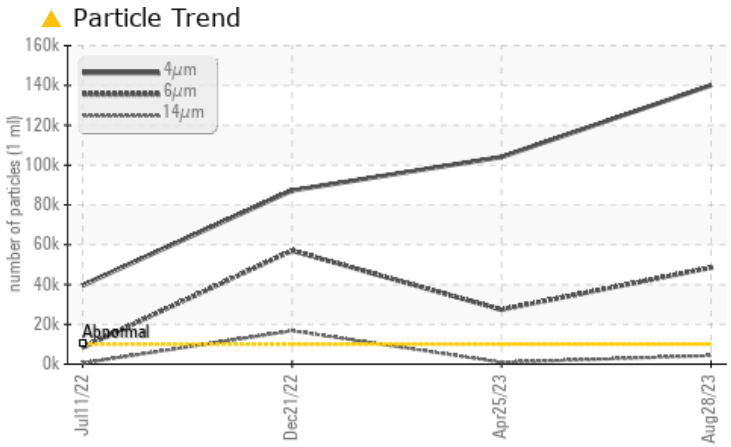
Sample Rating Trend



ISO

Area
COMPRESSOR STATIONS/CONAN AREA
Machine Id
EXCALIBUR (S/N 5629X3203)
Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>10000	▲ **140059**	▲ 104058	▲ 87230
Particles >6µm		ASTM D7647	>1300	▲ **48435**	▲ 27337	▲ 57017
Particles >14µm		ASTM D7647	>320	▲ **4276**	▲ 900	▲ 16764
Particles >21µm		ASTM D7647	>80	▲ **1493**	▲ 138	▲ 12818
Particles >38µm		ASTM D7647	>20	▲ **30**	5	▲ 428
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ **24/23/19**	▲ 24/22/17	▲ 24/23/21

Customer Id: EOGMID
Sample No.: TO60001223
Lab Number: 05937898
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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 Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

25 Apr 2023 Diag: Angela Borella

ISO

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

21 Dec 2022 Diag: Jonathan Hester

ISO

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

11 Jul 2022 Diag: Jonathan Hester

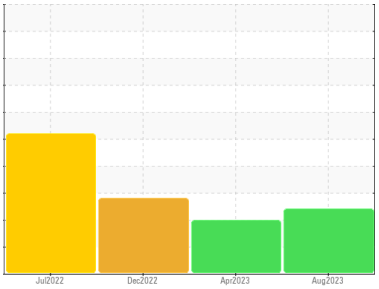
WATER

We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of particulates present in the oil. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
COMPRESSOR STATIONS/CONAN AREA
Machine Id
EXCALIBUR (S/N 5629X3203)
Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- 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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO60001223**	TO60000794	TO70000038
Sample Date		Client Info		**28 Aug 2023**	25 Apr 2023	21 Dec 2022
Machine Age	hrs	Client Info		**0**	18109	15152
Oil Age	hrs	Client Info		**0**	18109	1149
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**3**	6	1
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	<1
Nickel	ppm	ASTM D5185m		**<1**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	**3**	0	<1
Lead	ppm	ASTM D5185m	>25	**0**	<1	<1
Copper	ppm	ASTM D5185m	>50	**1**	1	0
Tin	ppm	ASTM D5185m	>15	**1**	<1	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	**<1**	0	0
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**<1**	<1	0
Calcium	ppm	ASTM D5185m	0	**0**	0	0
Phosphorus	ppm	ASTM D5185m	0	**8**	3	7
Zinc	ppm	ASTM D5185m	0	**0**	<1	0
Sulfur	ppm	ASTM D5185m	0	**1286**	578	390

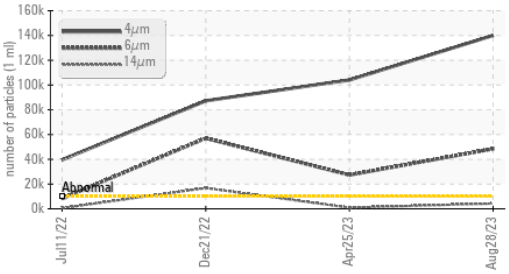
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**2**	1	4
Sodium	ppm	ASTM D5185m		**5**	6	3
Potassium	ppm	ASTM D5185m	>20	**2**	2	2
Water	%	ASTM D6304	>2.26	**0.27**	0.986	0.646
ppm Water	ppm	ASTM D6304	>22600	**2700.0**	9860	6460

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **140059**	▲ 104058	▲ 87230
Particles >6µm		ASTM D7647	>1300	▲ **48435**	▲ 27337	▲ 57017
Particles >14µm		ASTM D7647	>320	▲ **4276**	▲ 900	▲ 16764
Particles >21µm		ASTM D7647	>80	▲ **1493**	▲ 138	▲ 12818
Particles >38µm		ASTM D7647	>20	▲ **30**	5	▲ 428
Particles >71µm		ASTM D7647	>4	**3**	2	▲ 33
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ **24/23/19**	▲ 24/22/17	▲ 24/23/21

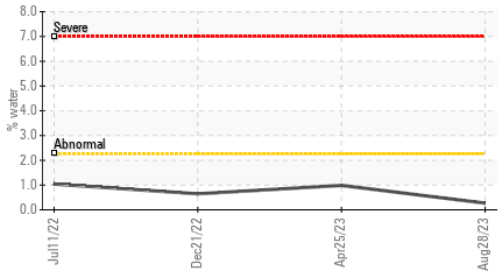
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.56**	0.55	0.57

OIL ANALYSIS REPORT

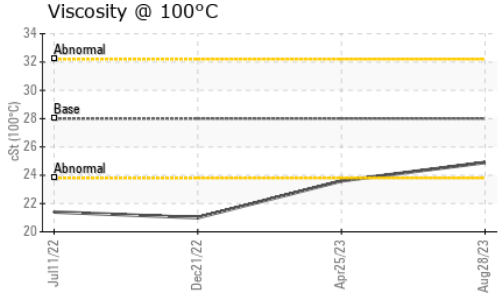
Particle Trend



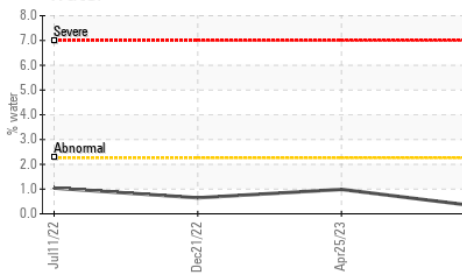
Water



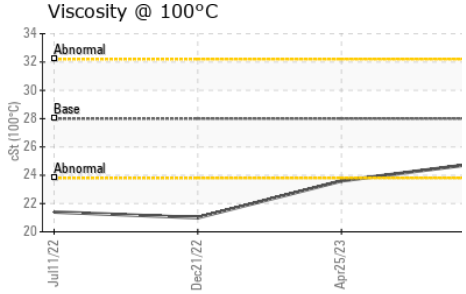
Viscosity @ 100°C



Water



Viscosity @ 100°C



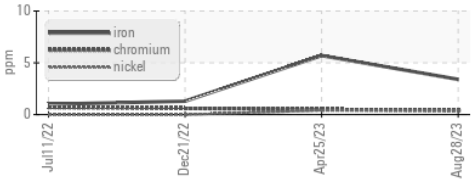
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	LIGHT	LIGHT
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	**147**	131	121
Visc @ 100°C	cSt	ASTM D445	28	**24.9**	23.6	21.0
Viscosity Index (VI)	Scale	ASTM D2270	224	**203**	212	200

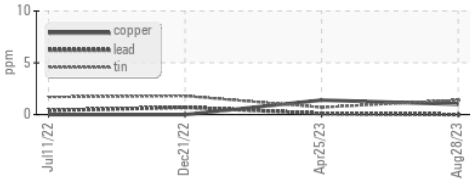
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

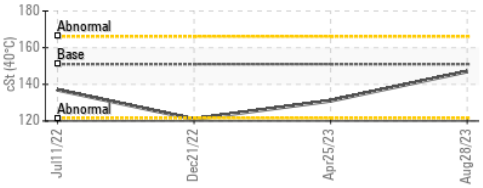
Ferrous Alloys



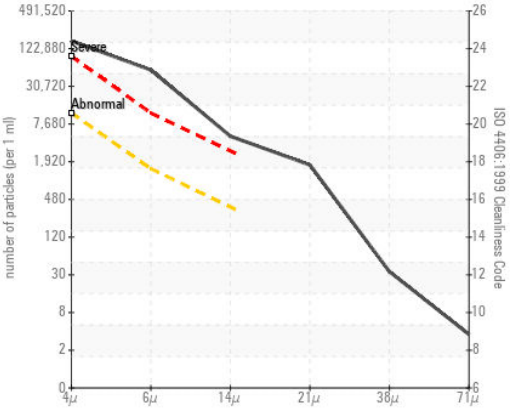
Non-ferrous Metals



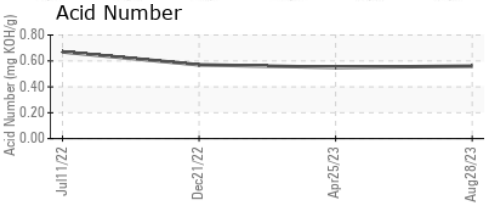
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001223 **Received** : 29 Aug 2023
Lab Number : 05937898 **Diagnosed** : 31 Aug 2023
Unique Number : 10628510 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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)

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