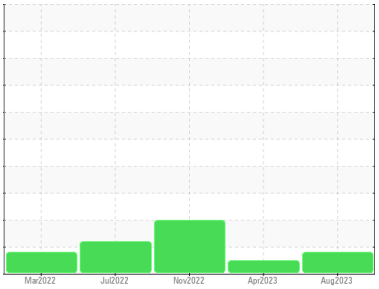
PROBLEM SUMMARY

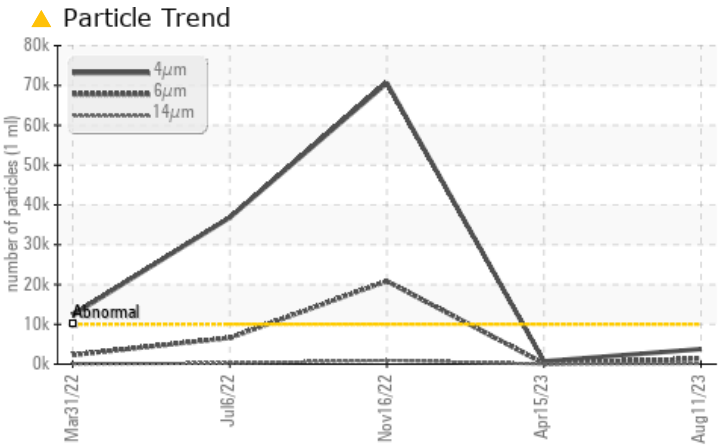
Sample Rating Trend



ISO

Area
COMPRESSOR STATIONS/RED HILLS WEST AREA
Machine Id
BULL RUN
Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	ABNORMAL
Particles >6µm		ASTM D7647	>1300	▲ **1358**	190	▲ 20861
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ **19/18/14**	17/15/11	▲ 23/22/17

Customer Id: EOGMID
Sample No.: TO60001267
Lab Number: 05936645
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

15 Apr 2023 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

16 Nov 2022 Diag: Angela Borella

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

06 Jul 2022 Diag: Doug Bogart

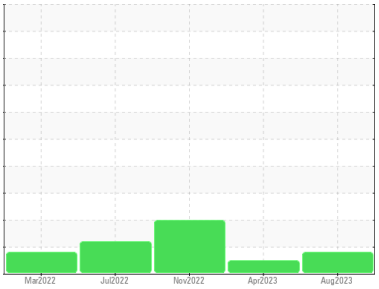
ISO

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 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

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
COMPRESSOR STATIONS/RED HILLS WEST AREA
Machine Id
BULL RUN
Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- 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 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		**TO60001267**	TO60000811	TO70000257
Sample Date		Client Info		**11 Aug 2023**	15 Apr 2023	16 Nov 2022
Machine Age	hrs	Client Info		**18886**	16149	12688
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	N/A	Not Changd
Sample Status				**ATTENTION**	NORMAL	ABNORMAL

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

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	<1
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	<1
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m	0	**2**	<1	3
Calcium	ppm	ASTM D5185m	0	**3**	0	0
Phosphorus	ppm	ASTM D5185m	0	**5**	7	26
Zinc	ppm	ASTM D5185m	0	**0**	0	<1
Sulfur	ppm	ASTM D5185m	0	**55**	65	0

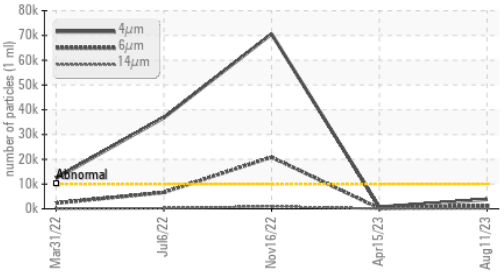
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	2	4
Sodium	ppm	ASTM D5185m		**<1**	4	0
Potassium	ppm	ASTM D5185m	>20	**2**	<1	5
Water	%	ASTM D6304	>2.26	**0.538**	0.775	0.151
ppm Water	ppm	ASTM D6304	>22600	**5381.9**	7750	1516.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**3780**	719	▲ 70590
Particles >6µm		ASTM D7647	>1300	▲ **1358**	190	▲ 20861
Particles >14µm		ASTM D7647	>320	**156**	20	▲ 958
Particles >21µm		ASTM D7647	>80	**51**	3	▲ 140
Particles >38µm		ASTM D7647	>20	**3**	0	7
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ **19/18/14**	17/15/11	▲ 23/22/17

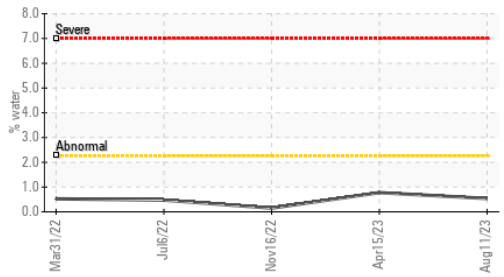
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.28**	0.16	0.28

OIL ANALYSIS REPORT

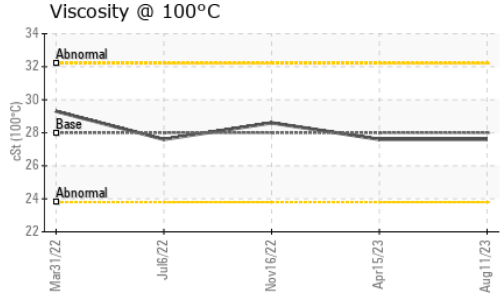
Particle Trend



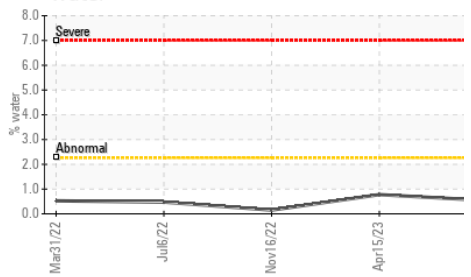
Water



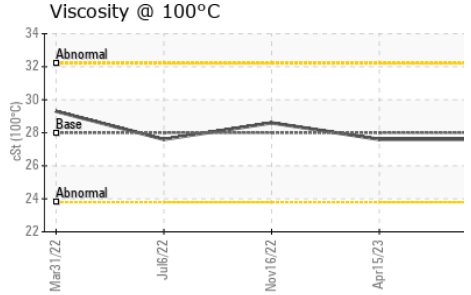
Viscosity @ 100°C



Water

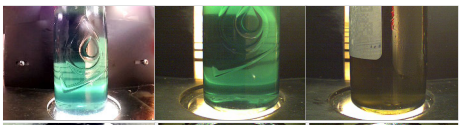
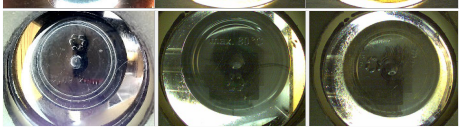


Viscosity @ 100°C



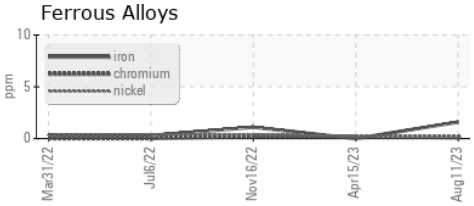
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	LIGHT
Sand/Dirt	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	**164**	155	159
Visc @ 100°C	cSt	ASTM D445	28	**27.6**	27.6	28.6
Viscosity Index (VI)	Scale	ASTM D2270	224	**207**	217	220

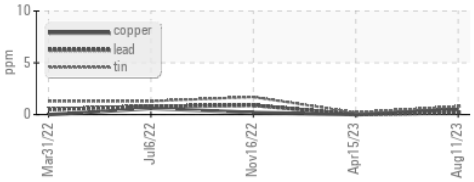
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

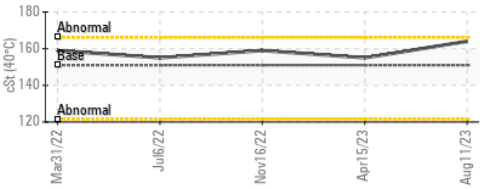
Ferrous Alloys



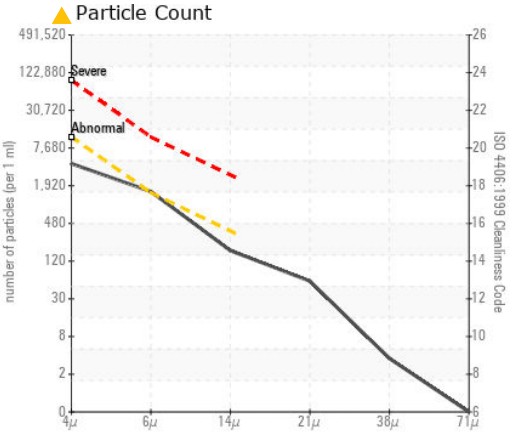
Non-ferrous Metals



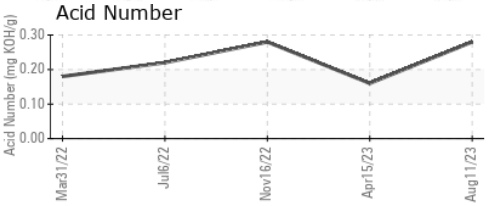
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001267 **Received** : 28 Aug 2023
Lab Number : 05936645 **Diagnosed** : 29 Aug 2023
Unique Number : 10621916 **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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