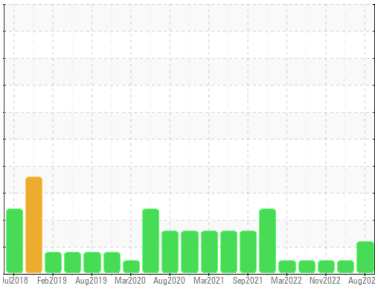
PROBLEM SUMMARY

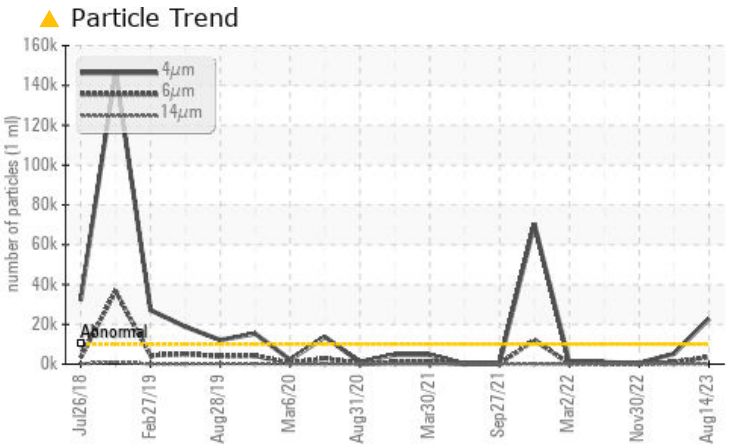
Sample Rating Trend



ISO

Area
EDWARD PLANT
Machine Id
C-2161 (S/N XC0342)
Component
Refrigeration Compressor
Fluid
TULCO LUBSOIL SYN RL WI 100 (250 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				ABNORMAL	NORMAL	NORMAL
Particles >4µm		ASTM D7647	>10000	▲ **22788**	5224	541
Particles >6µm		ASTM D7647	>2500	▲ **3522**	933	146
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **22/19/14**	20/17/12	16/14/10

Customer Id: TAREDWA
Sample No.: TO90002230
Lab Number: 05931576
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

15 Mar 2023 Diag: Doug Bogart

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The condition of the oil is acceptable for the time in service. Insufficient sample was received to conduct all the routine laboratory tests.

view report

30 Nov 2022 Diag: Doug Bogart

NORMAL

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

view report

07 Sep 2022 Diag: Doug Bogart

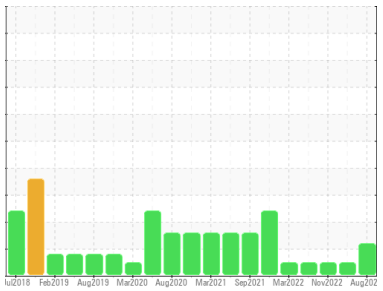
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. 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
EDWARD PLANT
Machine Id
C-2161 (S/N XC0342)
Component
Refrigeration Compressor
Fluid
TULCO LUBSOIL SYN RL WI 100 (250 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 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		**TO90002230**	TO90002330	TO90002357
Sample Date		Client Info		**14 Aug 2023**	15 Mar 2023	30 Nov 2022
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	**8**	7	2
Chromium	ppm	ASTM D5185m	>2	**0**	0	<1
Nickel	ppm	ASTM D5185m		**0**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>3	**0**	1	0
Lead	ppm	ASTM D5185m	>2	**0**	0	2
Copper	ppm	ASTM D5185m	>8	**1**	0	<1
Tin	ppm	ASTM D5185m	>4	**3**	1	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	2
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**2**	5	11
Calcium	ppm	ASTM D5185m		**41**	45	4
Phosphorus	ppm	ASTM D5185m	1500	**766**	667	174
Zinc	ppm	ASTM D5185m		**0**	10	4
Sulfur	ppm	ASTM D5185m		**99**	63	0

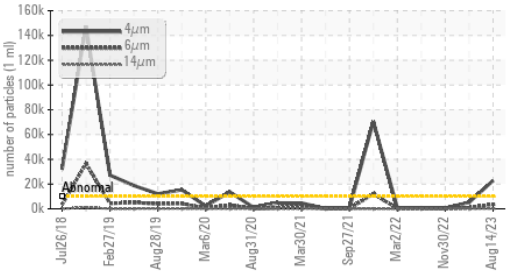
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**3**	2	1
Sodium	ppm	ASTM D5185m		**1**	0	7
Potassium	ppm	ASTM D5185m	>20	**1**	1	26
Water	%	ASTM D6304	>2.26	**0.039**	0.056	0.075
ppm Water	ppm	ASTM D6304	>22600	**395.6**	564.4	751.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **22788**	5224	541
Particles >6µm		ASTM D7647	>2500	▲ **3522**	933	146
Particles >14µm		ASTM D7647	>320	**85**	27	10
Particles >21µm		ASTM D7647	>80	**12**	7	3
Particles >38µm		ASTM D7647	>20	**0**	0	0
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **22/19/14**	20/17/12	16/14/10

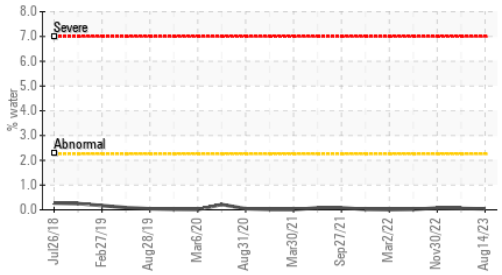
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.04	**0.031**	---	0.078

OIL ANALYSIS REPORT

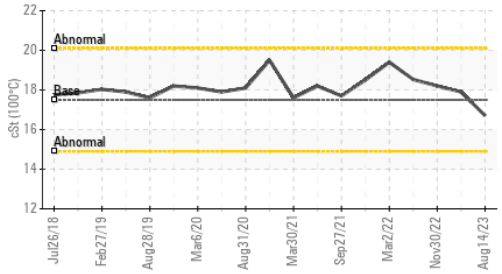
Particle Trend



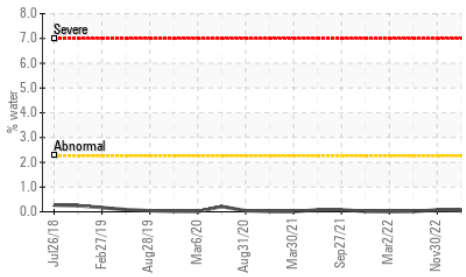
Water



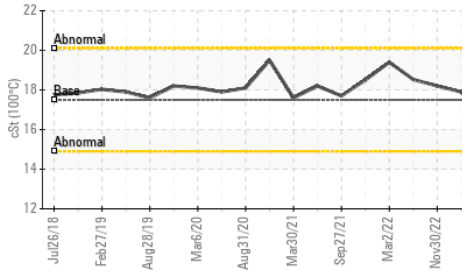
Viscosity @ 100°C



Water



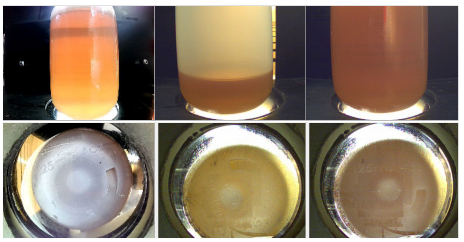
Viscosity @ 100°C



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**	VLITE	NONE
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

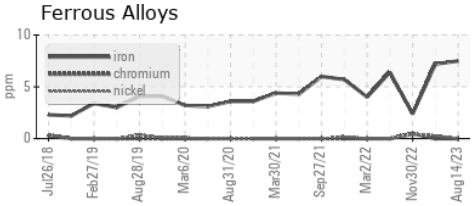
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	97	**100**	104	106
Visc @ 100°C	cSt	ASTM D445	17.5	**16.7**	17.9	18.2
Viscosity Index (VI)	Scale	ASTM D2270	198	**181**	190	191

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

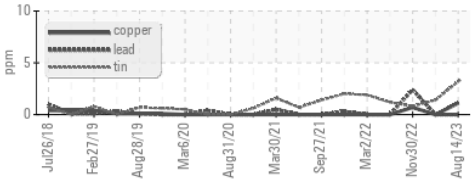


GRAPHS

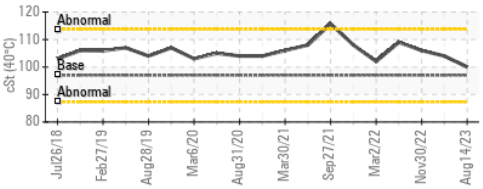
Ferrous Alloys



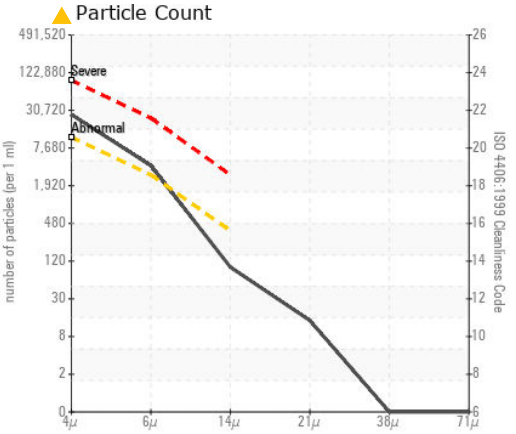
Non-ferrous Metals



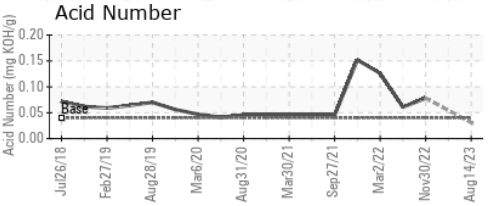
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90002230 **Received** : 22 Aug 2023
Lab Number : 05931576 **Diagnosed** : 24 Aug 2023
Unique Number : 10616847 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: 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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MIDKIFF, TX
US 79755
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bcervantes@targaresources.com
T:
F:

Report Id: TAREDWA [WUSCAR] 05931576 (Generated: 08/24/2023 11:41:54) Rev: 1

Submitted By: ERIC THORNTON