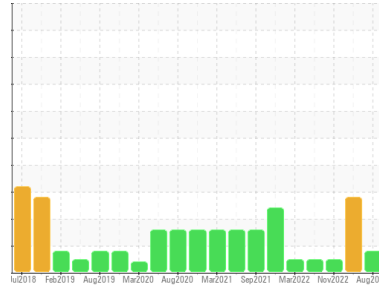


# PROBLEM SUMMARY

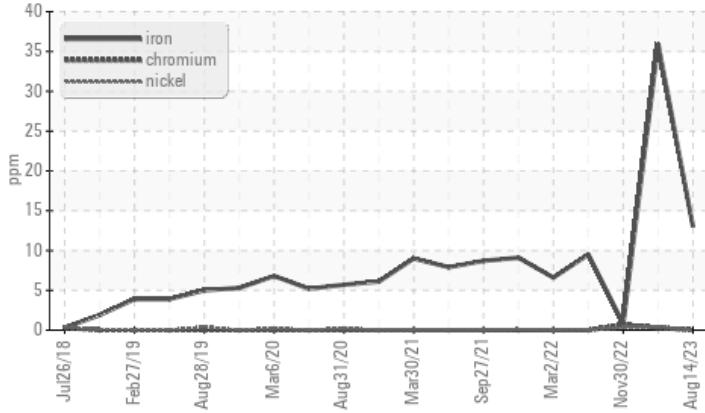
Sample Rating Trend



Area  
**EDWARD PLANT**  
 Machine Id  
**C-2163 (S/N XC0356)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**TULCO LUBSOIL SYN RL WI 100 (250 GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



### RECOMMENDATION

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

### PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>8	<b>▲ 13</b>	▲ 36	<1

**Customer Id:** TAREDWA  
**Sample No.:** TO90002252  
**Lab Number:** 05931579  
**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](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 15 Mar 2023 Diag: Angela Borella

#### WEAR



We recommend you service the filters on this component. The iron level is abnormal. All other 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 acceptable for the time in service.

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

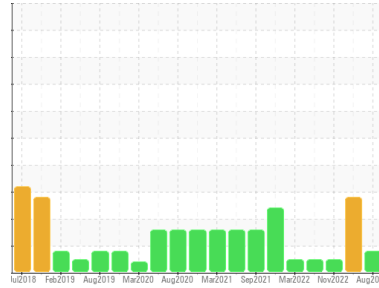


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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

view report



Area  
**EDWARD PLANT**  
 Machine Id  
**C-2163 (S/N XC0356)**  
 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**  
The iron level has decreased, but is still abnormal. All other component wear rates are normal.

**Contamination**  
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

**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	<b>TO90002252</b>	TO90002331	TO90002359
Sample Date	Client Info	<b>14 Aug 2023</b>	15 Mar 2023	30 Nov 2022
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	NORMAL

**WEAR METALS**

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >8	<b>▲ 13</b>	▲ 36	<1
Chromium ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Nickel ppm	ASTM D5185m	<b>0</b>	<1	<1
Titanium ppm	ASTM D5185m	<b>0</b>	0	<1
Silver ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum ppm	ASTM D5185m >3	<b>0</b>	1	0
Lead ppm	ASTM D5185m >2	<b>0</b>	0	2
Copper ppm	ASTM D5185m >8	<b>1</b>	<1	<1
Tin ppm	ASTM D5185m >4	<b>4</b>	3	<1
Vanadium ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium ppm	ASTM D5185m	<b>0</b>	0	<1

**ADDITIVES**

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<b>0</b>	0	<1
Barium ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum ppm	ASTM D5185m	<b>0</b>	<1	<1
Manganese ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium ppm	ASTM D5185m	<b>2</b>	6	11
Calcium ppm	ASTM D5185m	<b>63</b>	59	<1
Phosphorus ppm	ASTM D5185m 1500	<b>132</b>	61	28
Zinc ppm	ASTM D5185m	<b>4</b>	18	<1
Sulfur ppm	ASTM D5185m	<b>84</b>	68	0

**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	<b>3</b>	11	<1
Sodium ppm	ASTM D5185m	<b>1</b>	0	10
Potassium ppm	ASTM D5185m >20	<b>1</b>	<1	30
Water %	ASTM D6304 >2.26	<b>0.029</b>	0.00	0.084
ppm Water	ASTM D6304 >22600	<b>291.0</b>	0.00	842.1

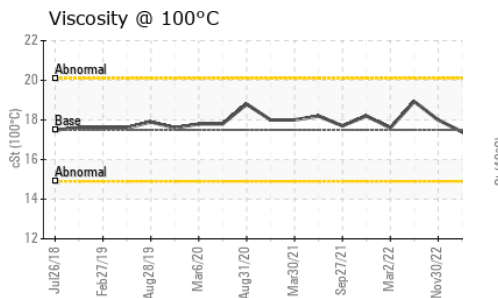
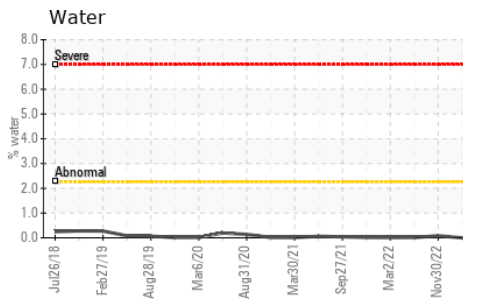
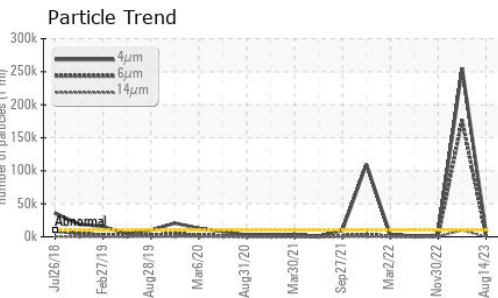
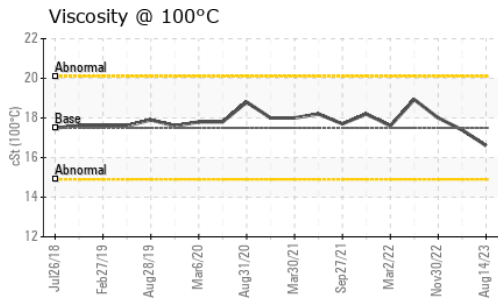
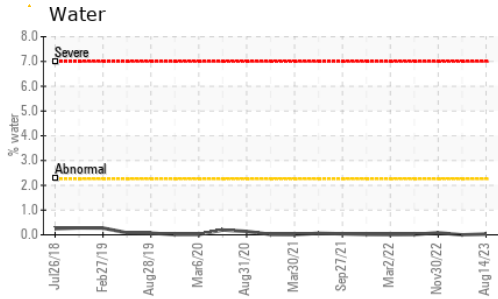
**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>7120</b>	▲ 255604	2279
Particles >6µm	ASTM D7647 >2500	<b>1694</b>	▲ 177035	559
Particles >14µm	ASTM D7647 >320	<b>62</b>	▲ 10030	21
Particles >21µm	ASTM D7647 >80	<b>9</b>	▲ 655	3
Particles >38µm	ASTM D7647 >20	<b>0</b>	1	0
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>20/18/13</b>	▲ 25/25/21	18/16/12

**FLUID DEGRADATION**

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974 0.04	<b>0.039</b>	0.059	0.043

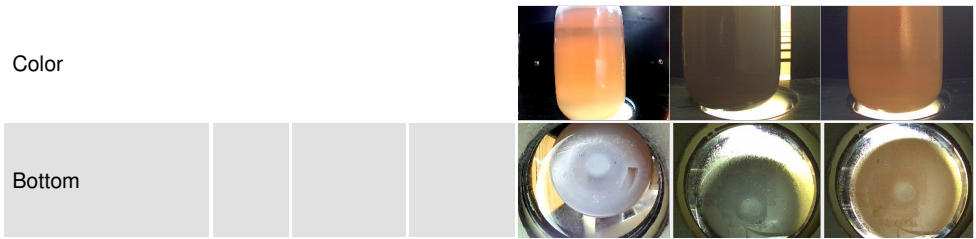
# OIL ANALYSIS REPORT



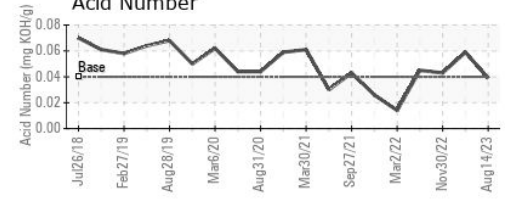
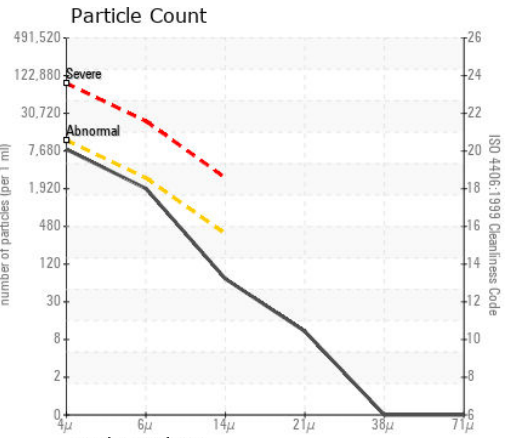
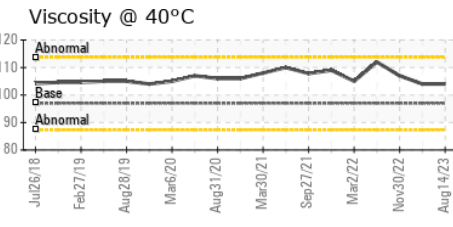
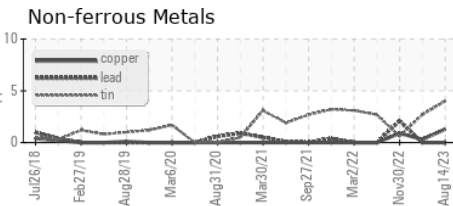
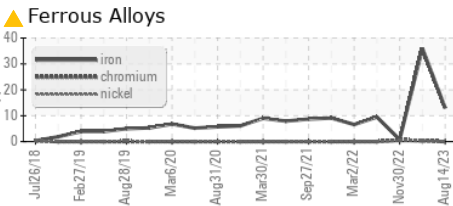
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	97	104	107
Visc @ 100°C	cSt	ASTM D445	17.5	16.6	17.4
Viscosity Index (VI)	Scale	ASTM D2270	198	173	184

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO90002252 **Received** : 22 Aug 2023  
**Lab Number** : 05931579 **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10616850 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, VI )

**TARGA RESOURCES - EDWARD**  
 1757 COUNTY ROAD 250  
 MIDKIFF, TX  
 US 79755  
 Contact: BRANDON CERVANTES  
 bcervantes@targaresources.com

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: