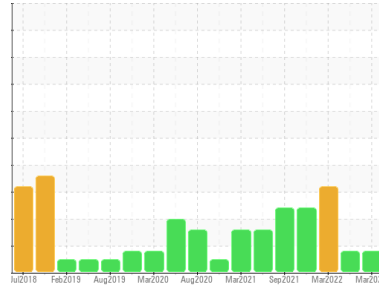


# PROBLEM SUMMARY

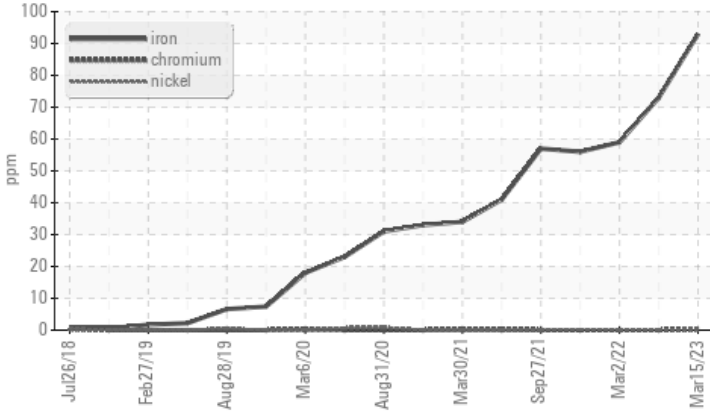
Sample Rating Trend



Area  
**JOYCE PLANT**  
Machine Id  
**C-203 (S/N 10241E76297340)**  
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	ATTENTION
Iron	ppm	ASTM D5185m	>50	<b>▲ 93</b>	▲ 73	▲ 59

**Customer Id:** TARJOYC  
**Sample No.:** TO90002334  
**Lab Number:** 05797383  
**Test Package:** IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Angela Borella +1 800-237-1369  
[angela.borella@wearcheckusa.com](mailto:angela.borella@wearcheckusa.com)

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

### 07 Sep 2022 Diag: Doug Bogart

#### WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. 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](#)



### 02 Mar 2022 Diag: Angela Borella

#### WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. The iron level is abnormal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



### 30 Nov 2021 Diag: Doug Bogart

#### WATER

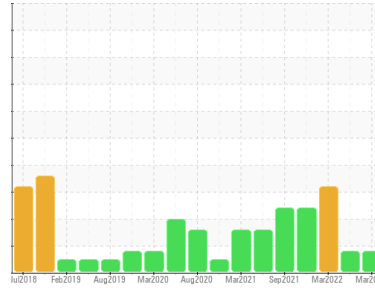


No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



Area  
**JOYCE PLANT**  
 Machine Id  
**C-203 (S/N 10241E76297340)**  
 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 is abnormal.
- 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>TO90002334</b>	TO9012510	TO90001710
Sample Date	Client Info	<b>15 Mar 2023</b>	07 Sep 2022	02 Mar 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ATTENTION

**WEAR METALS**

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	<b>▲ 93</b>	▲ 73	▲ 59
Chromium ppm	ASTM D5185m >10	<1	0	0
Nickel ppm	ASTM D5185m	<1	0	0
Titanium ppm	ASTM D5185m	0	0	0
Silver ppm	ASTM D5185m	0	0	<1
Aluminum ppm	ASTM D5185m >10	1	<1	<1
Lead ppm	ASTM D5185m >10	0	0	0
Copper ppm	ASTM D5185m >50	<1	<1	0
Tin ppm	ASTM D5185m >10	4	4	4
Antimony ppm	ASTM D5185m	---	---	2
Vanadium ppm	ASTM D5185m	<1	0	0
Cadmium ppm	ASTM D5185m	0	0	0

**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	<1	0	0
Manganese ppm	ASTM D5185m	2	1	<1
Magnesium ppm	ASTM D5185m	2	0	0
Calcium ppm	ASTM D5185m	8	2	<1
Phosphorus ppm	ASTM D5185m 1500	441	457	539
Zinc ppm	ASTM D5185m	76	57	50
Sulfur ppm	ASTM D5185m	39	120	22

**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	6	6	5
Sodium ppm	ASTM D5185m	10	7	6
Potassium ppm	ASTM D5185m >20	<1	0	0
Water %	ASTM D6304 >2.26	0.00	0.014	▲ 0.026
ppm Water	ASTM D6304 >22600	0.00	147.9	▲ 268.1

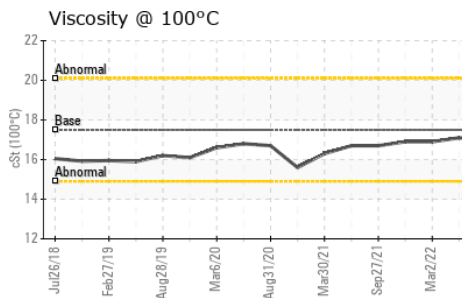
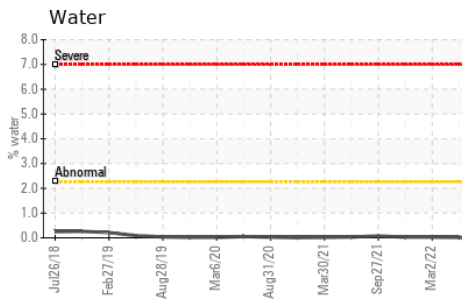
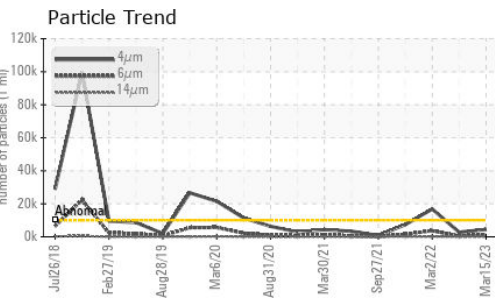
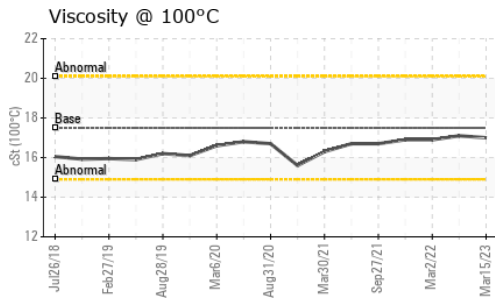
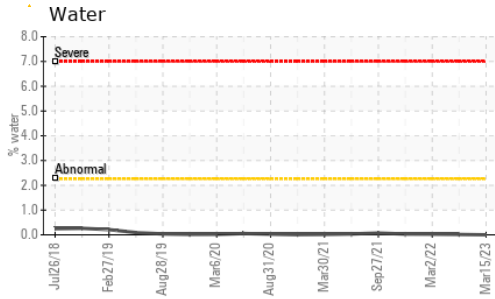
**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	4480	2765	▲ 16797
Particles >6µm	ASTM D7647 >2500	1160	489	▲ 3682
Particles >14µm	ASTM D7647 >320	35	22	131
Particles >21µm	ASTM D7647 >80	6	5	21
Particles >38µm	ASTM D7647 >20	0	0	0
Particles >71µm	ASTM D7647 >4	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	19/17/12	19/16/12	▲ 21/19/14

**FLUID DEGRADATION**

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974 0.04	0.116	0.101	0.177

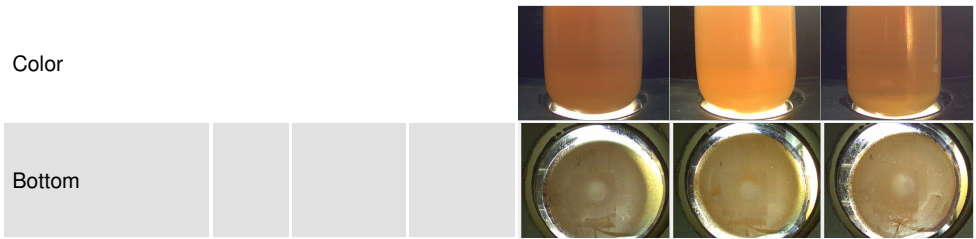
# OIL ANALYSIS REPORT



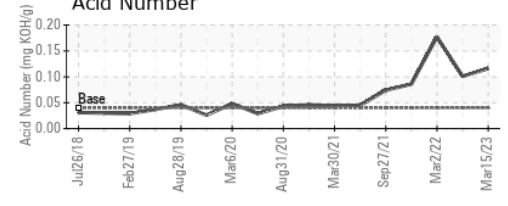
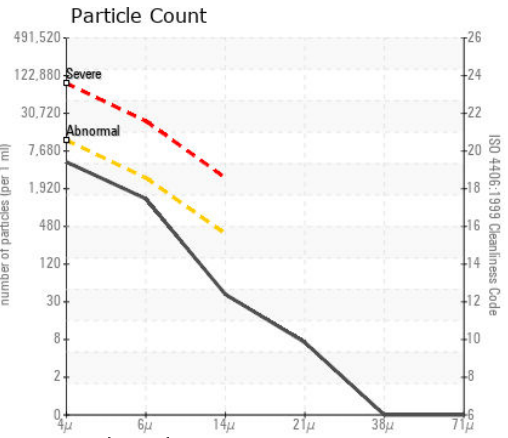
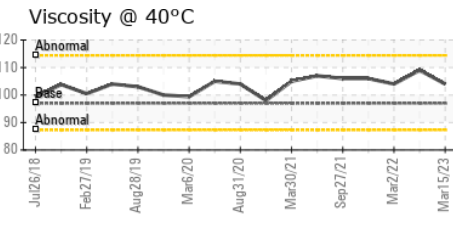
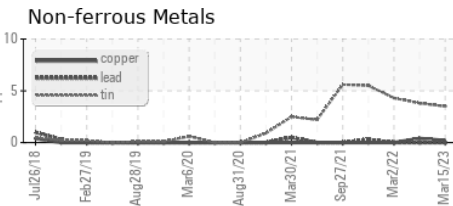
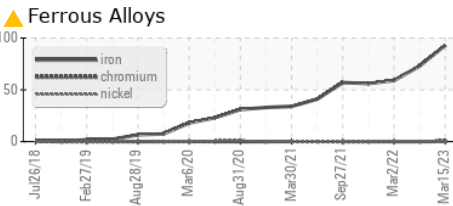
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	109
Visc @ 100°C	cSt	ASTM D445	17.5	17.0	16.9
Viscosity Index (VI)	Scale	ASTM D2270	198	178	171

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO90002334 **Received** : 21 Mar 2023  
**Lab Number** : 05797383 **Diagnosed** : 23 Mar 2023  
**Unique Number** : 10387067 **Diagnostician** : Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, VI )

**TARGA RESOURCES - JOYCE**  
 1757 COUNTY ROAD 250  
 MIDKIFF, TX  
 US 79755  
 Contact: LLOYD FITTS  
 lfitts@targaresources.com  
 T: (432)770-7923  
 F:

Certificate L2367  
 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)