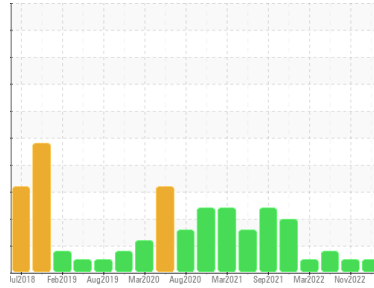


Area  
**JOYCE PLANT**  
 Machine Id  
**C-202 (S/N 10241E76290215)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**TULCO LUBSOIL SYN RL WI 100 (250 GAL)**



**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 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>TO90002254</b>	TO90002360	TO9012509
Sample Date	Client Info	<b>14 Aug 2023</b>	30 Nov 2022	07 Sep 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	Not Changd
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR METALS**

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >8	<b>42</b>	8	▲ 56
Chromium ppm	ASTM D5185m >2	<b>0</b>	<1	0
Nickel ppm	ASTM D5185m	<b>0</b>	<1	0
Titanium ppm	ASTM D5185m	<b>0</b>	<1	0
Silver ppm	ASTM D5185m >2	<b>0</b>	<1	0
Aluminum ppm	ASTM D5185m >3	<b>0</b>	0	<1
Lead ppm	ASTM D5185m >2	<b>0</b>	2	0
Copper ppm	ASTM D5185m >8	<b>&lt;1</b>	<1	0
Tin ppm	ASTM D5185m >4	<b>2</b>	1	4
Antimony ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium ppm	ASTM D5185m	<b>0</b>	<1	0

**ADDITIVES**

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<b>0</b>	2	0
Barium ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum ppm	ASTM D5185m	<b>0</b>	<1	0
Manganese ppm	ASTM D5185m	<b>1</b>	<1	1
Magnesium ppm	ASTM D5185m	<b>&lt;1</b>	11	0
Calcium ppm	ASTM D5185m	<b>4</b>	0	2
Phosphorus ppm	ASTM D5185m 1500	<b>1009</b>	124	377
Zinc ppm	ASTM D5185m	<b>19</b>	10	53
Sulfur ppm	ASTM D5185m	<b>25</b>	0	54

**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	<b>3</b>	2	7
Sodium ppm	ASTM D5185m	<b>5</b>	9	8
Potassium ppm	ASTM D5185m >20	<b>&lt;1</b>	29	0
Water %	ASTM D6304 >2.26	<b>0.023</b>	0.089	0.018
ppm Water	ASTM D6304 >22600	<b>231.4</b>	890.5	187.4

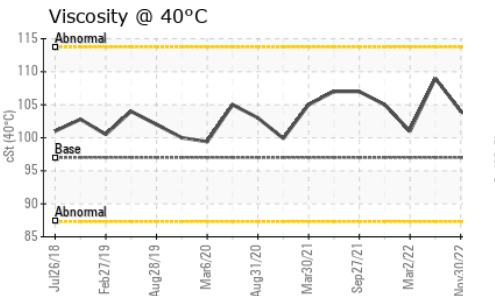
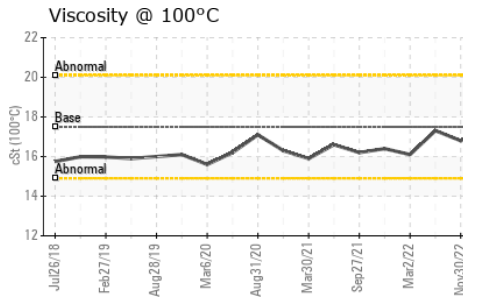
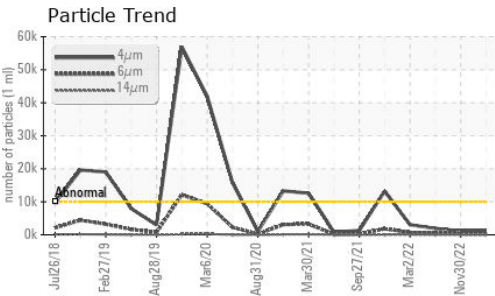
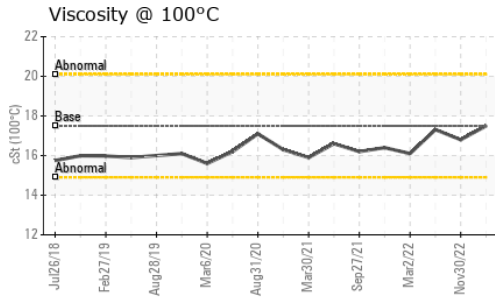
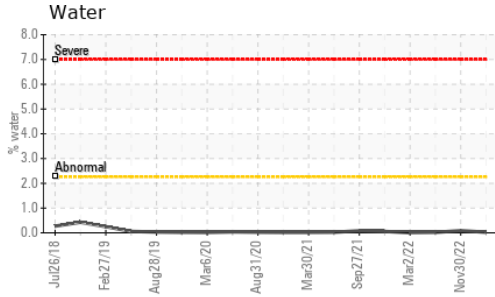
**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>1074</b>	1135	1927
Particles >6µm	ASTM D7647 >2500	<b>258</b>	342	483
Particles >14µm	ASTM D7647 >320	<b>20</b>	13	20
Particles >21µm	ASTM D7647 >80	<b>7</b>	1	4
Particles >38µm	ASTM D7647 >20	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>17/15/11</b>	17/16/11	18/16/11

**FLUID DEGRADATION**

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974 0.04	<b>0.062</b>	0.046	0.099

# OIL ANALYSIS REPORT



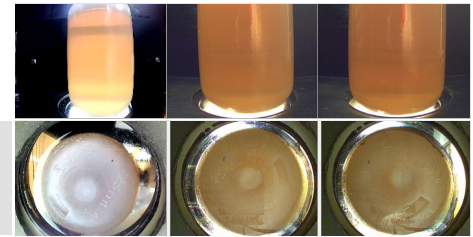
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	102	104
Visc @ 100°C	cSt	ASTM D445	17.5	17.5	16.8
Viscosity Index (VI)	Scale	ASTM D2270	198	188	175

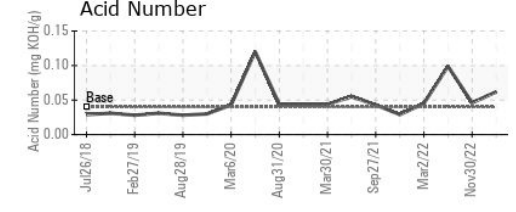
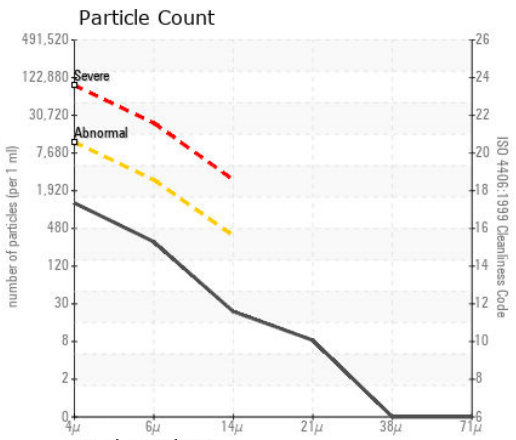
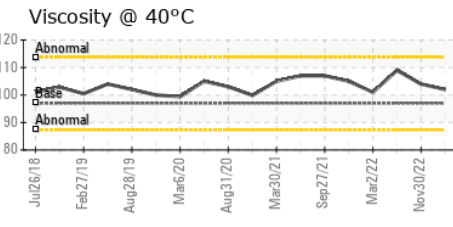
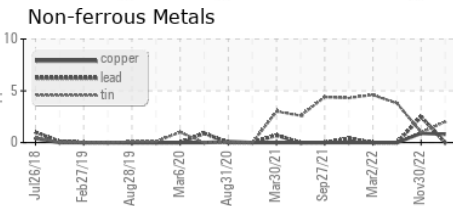
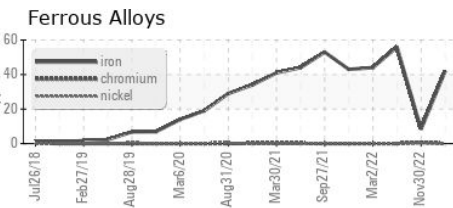
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO90002254 **Received** : 22 Aug 2023  
**Lab Number** : 05931607 **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10616878 **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:

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)