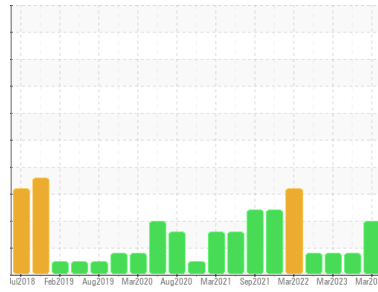


OIL ANALYSIS REPORT

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)

DIAGNOSIS

- Recommendation**
 We recommend you service the filters on this component. Resample at the next service interval to monitor.
- Wear**
 The iron level is abnormal.
- 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	TO90003252	TO90002255	TO90002334
Sample Date	Client Info	14 Mar 2024	14 Aug 2023	15 Mar 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >8	▲ 103	▲ 100	▲ 93
Chromium ppm	ASTM D5185m >2	0	<1	<1
Nickel ppm	ASTM D5185m	<1	0	<1
Titanium ppm	ASTM D5185m	0	0	0
Silver ppm	ASTM D5185m >2	0	0	0
Aluminum ppm	ASTM D5185m >3	<1	0	1
Lead ppm	ASTM D5185m >2	0	0	0
Copper ppm	ASTM D5185m >8	2	<1	<1
Tin ppm	ASTM D5185m >4	4	4	4
Vanadium ppm	ASTM D5185m	<1	0	<1
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	0
Barium ppm	ASTM D5185m	0	0	0
Molybdenum ppm	ASTM D5185m	0	0	<1
Manganese ppm	ASTM D5185m	3	2	2
Magnesium ppm	ASTM D5185m	2	1	2
Calcium ppm	ASTM D5185m	4	8	8
Phosphorus ppm	ASTM D5185m 1500	794	538	441
Zinc ppm	ASTM D5185m	48	67	76
Sulfur ppm	ASTM D5185m	31	39	39

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	5	6	6
Sodium ppm	ASTM D5185m	10	10	10
Potassium ppm	ASTM D5185m >20	3	1	<1
Water %	ASTM D6304 >2.26	0.032	0.019	0.00
ppm Water	ASTM D6304 >22600	328	199.1	0.00

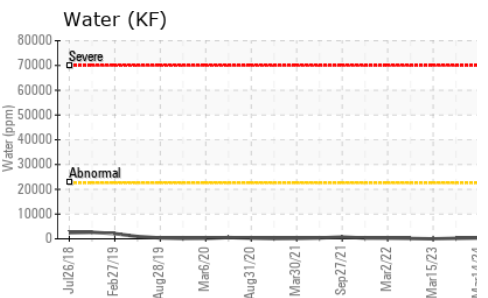
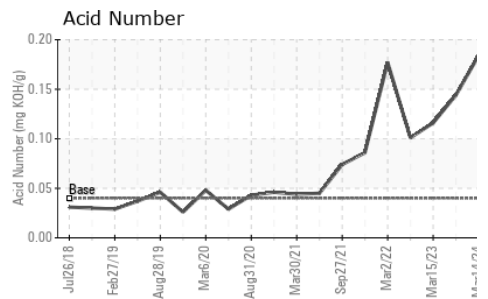
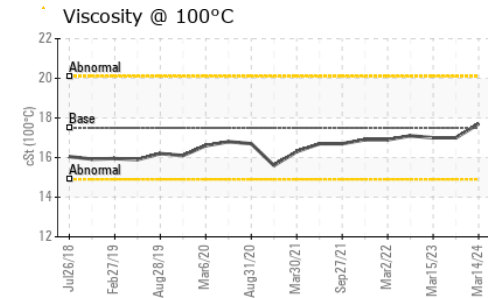
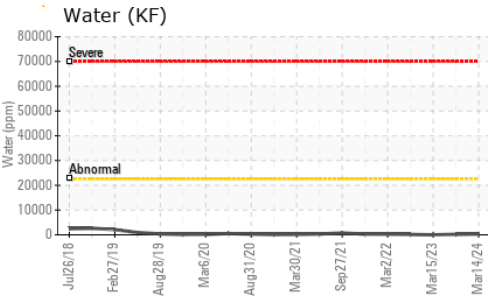
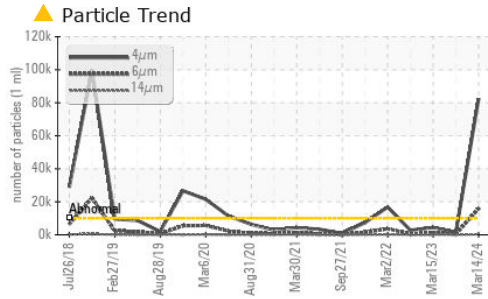
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 82415	1540	4480
Particles >6µm	ASTM D7647 >2500	▲ 15920	432	1160
Particles >14µm	ASTM D7647 >320	255	27	35
Particles >21µm	ASTM D7647 >80	33	6	6
Particles >38µm	ASTM D7647 >20	0	0	0
Particles >71µm	ASTM D7647 >4	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ 24/21/15	18/16/12	19/17/12

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974 0.04	0.184	0.144	0.116

OIL ANALYSIS REPORT

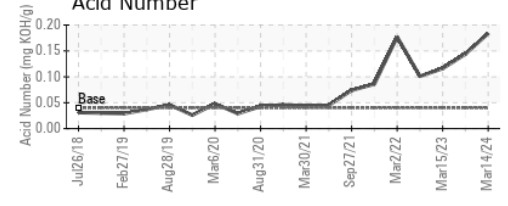
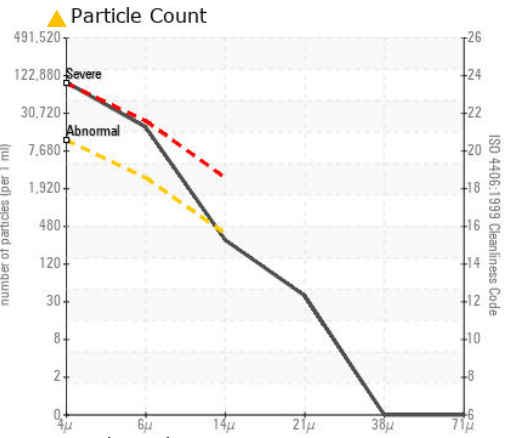
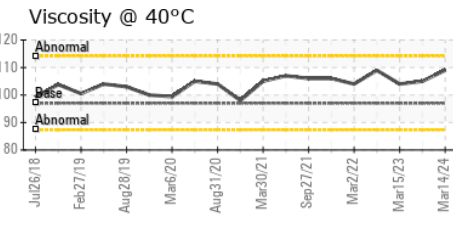
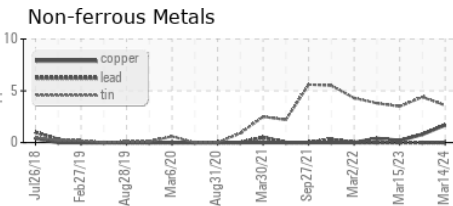
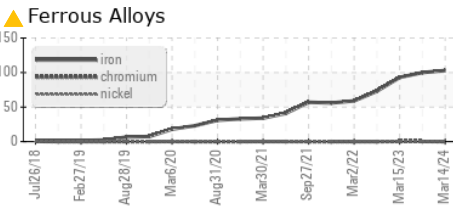


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	109	105
Visc @ 100°C	cSt	ASTM D445	17.5	17.7	17.0
Viscosity Index (VI)	Scale	ASTM D2270	198	179	176

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90003252 **Received** : 16 Apr 2024
Lab Number : 06150508 **Tested** : 17 Apr 2024
Unique Number : 10980586 **Diagnosed** : 18 Apr 2024 - Don Baldrige
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)