

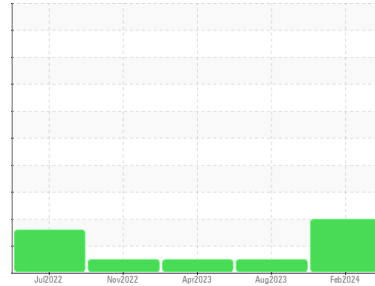
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area  
**COMPRESSOR STATIONS/RED HILLS WEST AREA**  
 Machine Id  
**BANDIT (S/N F1901035440)**

Component  
**Compressor**  
 Fluid  
**TULCO LUBSOIL LPG WS 150 (10 GAL)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>TO60002032</b>	TO60001213	TO60000810
Sample Date	Client Info	<b>06 Feb 2024</b>	11 Aug 2023	14 Apr 2023
Machine Age	hrs	<b>26293</b>	22026	19255
Oil Age	hrs	<b>22026</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	Not Changd	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	0
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m >25	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >50	<b>0</b>	<1	0
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 0	<b>8</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m 0	<b>&lt;1</b>	1	<1
Calcium	ppm	ASTM D5185m 0	<b>1</b>	0	0
Phosphorus	ppm	ASTM D5185m 0	<b>26</b>	4	5
Zinc	ppm	ASTM D5185m 0	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m 0	<b>64</b>	117	122

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>0</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>4</b>	<1	4
Potassium	ppm	ASTM D5185m >20	<b>1</b>	1	<1
Water	%	ASTM D6304 >2.26	<b>0.737</b>	0.630	1.38
ppm Water	ppm	ASTM D6304 >22600	<b>7370</b>	6300.2	13800

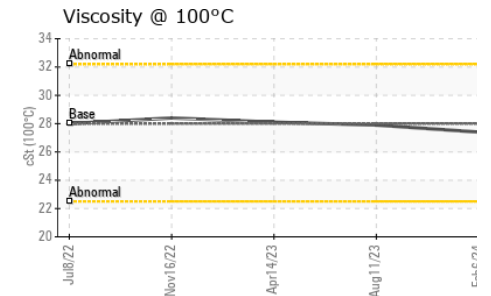
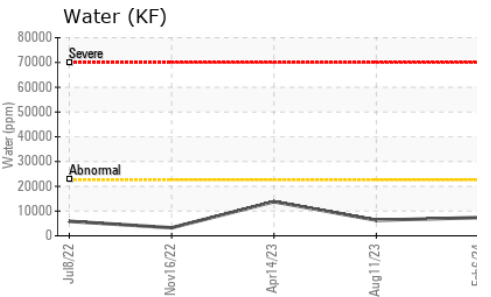
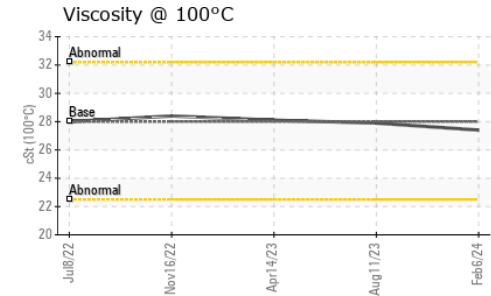
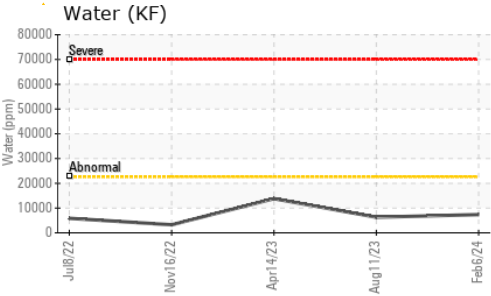
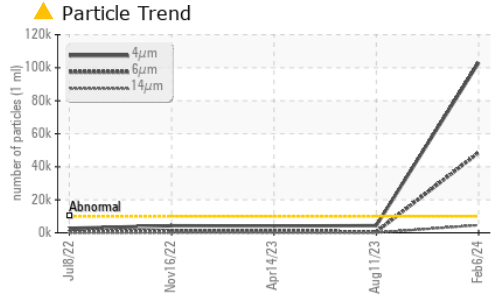
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 103035</b>	4363	4133
Particles >6µm	ASTM D7647 >1300	<b>▲ 48559</b>	570	953
Particles >14µm	ASTM D7647 >320	<b>▲ 4656</b>	43	46
Particles >21µm	ASTM D7647 >80	<b>▲ 832</b>	9	11
Particles >38µm	ASTM D7647 >20	<b>5</b>	0	0
Particles >71µm	ASTM D7647 >4	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/17/15	<b>▲ 24/23/19</b>	19/16/13	19/17/13

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.23</b>	0.33	0.21

# OIL ANALYSIS REPORT

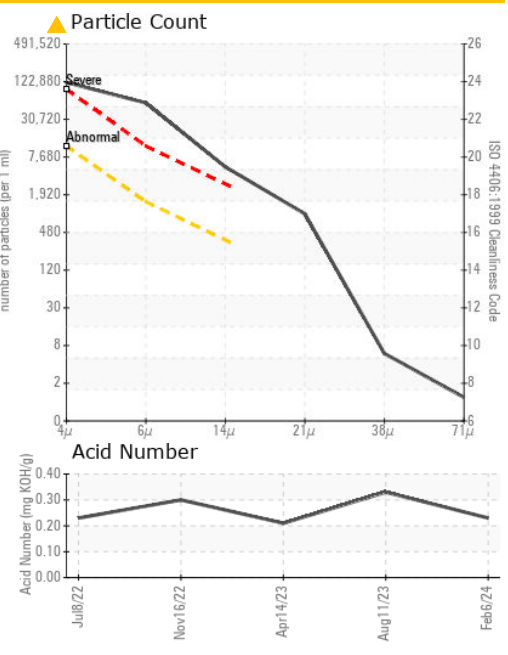
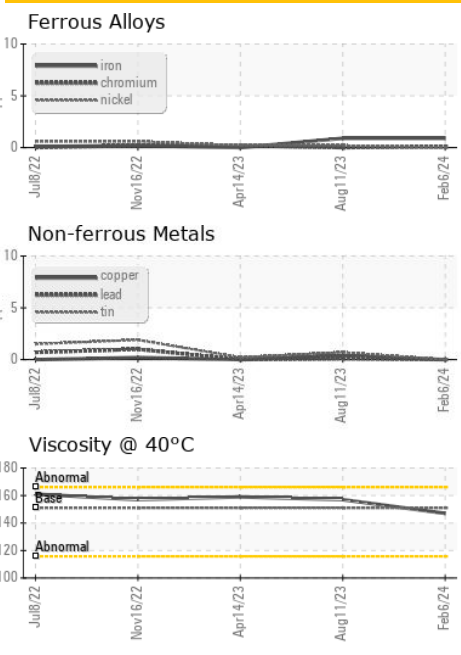


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	151	157	159
Visc @ 100°C	cSt	ASTM D445	28	27.9	28.1
Viscosity Index (VI)	Scale	ASTM D2270	224	217	216

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002032 **Received** : 26 Feb 2024  
**Lab Number** : 06100941 **Tested** : 27 Feb 2024  
**Unique Number** : 10899171 **Diagnosed** : 28 Feb 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, 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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