

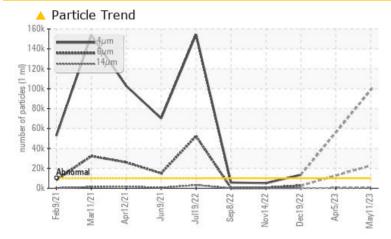
## **PROBLEM SUMMARY**

# BOSS JAMES RANCH 19 (S/N 117142)

Compressor Fluid

## TULCO LUBSOIL LPG WS 150 (10 GAL)

### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

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

#### **PROBLEMATIC TEST RESULTS** Sample Status ABNORMAL ABNORMAL ABNORMAL Particles >4µm ASTM D7647 >10000 98447 ▲ 13555 Particles >6µm ASTM D7647 >1300 22867 ▲ 2623 Particles >14µm ASTM D7647 >320 813 102 Particles >21µm ASTM D7647 >80 **169** 17 **Oil Cleanliness** ISO 4406 (c) >20/17/15 🔺 24/22/17

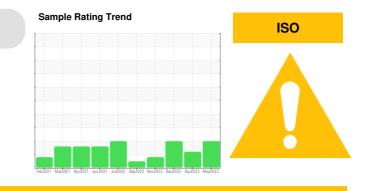
Customer Id: RICHOB Sample No.: TO90003367 Lab Number: 05867344 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter	MISSED	Nov 30 2023	?	We recommend you service the filters on this component.			

#### HISTORICAL DIAGNOSIS

#### 05 Apr 2023 Diag: Don Baldridge



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. All other component wear rates are normal. High concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

#### 19 Dec 2022 Diag: Don Baldridge

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor.Gear wear is indicated. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

WEAR

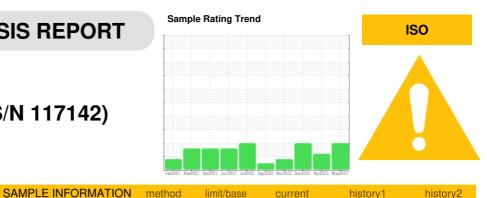
#### 14 Nov 2022 Diag: Angela Borella

We recommend an early resample to monitor this condition. The iron level is abnormal. All other 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 acceptable for the time in service.





## **OIL ANALYSIS REPORT**



#### Machine Id BOSS JAMES RANCH 19 (S/N 117142) 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 suitable for further service.

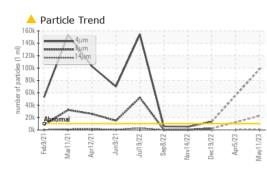
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90003367	TO90002795	TO90002623
Sample Date		Client Info		11 May 2023	05 Apr 2023	19 Dec 2022
Machine Age	hrs	Client Info		3724	2866	734
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<u> </u>	<b>9</b> 5
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	5
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	2
Tin	ppm		>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	0	1	2	3
Calcium	ppm	ASTM D5185m	0	5	19	26
Phosphorus	ppm	ASTM D5185m	0	102	200	274
Zinc	ppm	ASTM D5185m	0	0	30	28
Sulfur	ppm	ASTM D5185m	0	159	103	140
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	1
Sodium	ppm	ASTM D5185m		5	23	33
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water	%	ASTM D6304	>2.26	0.341	0.364	0.853
ppm Water	ppm	ASTM D6304	>22600	3410	3640	8530
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<mark>  98447</mark>		<b>1</b> 3555
Particles >6µm		ASTM D7647	>1300	<u> </u>		<b>A</b> 2623
Particles >14µm		ASTM D7647	>320	<b>A</b> 813		102
Particles >21µm		ASTM D7647	>80	<u> </u>		17
Particles >38µm		ASTM D7647	>20	3		2
Particles >71µm		ASTM D7647	>4	0		1
Oil Cleanliness		ISO 4406 (c)	>20/17/15	<b>4/22/17</b>		▲ 21/19/14
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.24	0.43	0.30

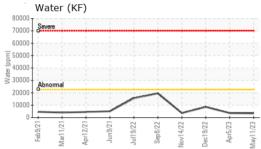
TULCO WEATERK

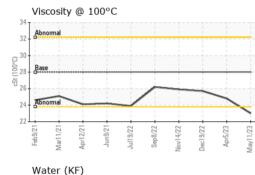
## **OIL ANALYSIS REPORT**

Color

Bottom







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	🔺 HEAVY	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	125	135	142
Visc @ 100°C	cSt	ASTM D445	28	23.0	24.8	25.7
Viscosity Index (VI)	Scale	ASTM D2270	224	215	218	216
SAMPLE IMAGES		method	limit/base	current	history1	history2

