

# **PROBLEM SUMMARY**

# Sample Rating Trend



# BOSS TAR HEEL NORTH (S/N 128650)

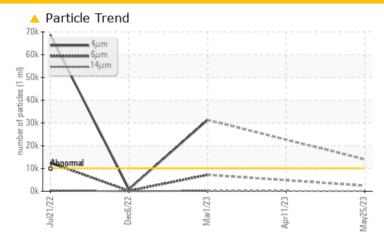
Compressor

**TULCO LUBSOIL LPG WS 150 (10 GAL)** 





# **COMPONENT CONDITION SUMMARY**



# RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TE	ST RESULTS				
Sample Status			ATTENTION	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>10000	<b>14035</b>		▲ 31308
Particles >6µm	ASTM D7647	>1300	<u> </u>		<u>^</u> 7194
Oil Cleanliness	ISO 4406 (c)	>20/17/15	<u>^</u> 21/18/14		▲ 22/20/15

**Customer Id: RICHOB** Sample No.: TO90003377 Lab Number: 05867338 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 dougb@wearcheckusa.com

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

### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

# HISTORICAL DIAGNOSIS

# 11 Apr 2023 Diag: Don Baldridge

VIS DEBRIS



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. All component wear rates are normal. Moderate 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.



### 01 Mar 2023 Diag: Don Baldridge

VISCOSITY



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. The AN level is acceptable for this fluid.



## 06 Dec 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

# Sample Rating Trend

ISO

Machine Id

# **BOSS TAR HEEL NORTH (S/N 128650)**

Component

Compressor

**TULCO LUBSOIL LPG WS 150 (10 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 a moderate 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.

		Jul2022	Dec2022	Mar2023 Apr2023	May2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90003377	TO90002797	TO90002918
Sample Date		Client Info		25 May 2023	11 Apr 2023	01 Mar 2023
Machine Age	hrs	Client Info		17	17	14162
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	3	3
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	0
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	2	<1	<1
Calcium	ppm	ASTM D5185m	0	0	0	<1
Phosphorus	ppm	ASTM D5185m	0	60	44	49
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	165	96	85
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	0
Sodium	ppm	ASTM D5185m		3	1	3
Potassium	ppm	ASTM D5185m	>20	2	1	1
Water	%	ASTM D6304	>2.26	0.371	0.418	1.26
ppm Water	ppm	ASTM D6304	>22600	3710	4180	12600
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>14035</b>		▲ 31308
Particles >6µm		ASTM D7647	>1300	<u> </u>		<u>^</u> 7194
Particles >14μm		ASTM D7647	>320	95		246
Particles >21μm		ASTM D7647	>80	10		42
Particles >38μm		ASTM D7647	>20	0		0
Particles >71μm		ASTM D7647	>4	0		0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	<u>^</u> 21/18/14		<u>22/20/15</u>
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.119	0.103	0.12



# **OIL ANALYSIS REPORT**

