

# **PROBLEM SUMMARY**

# Sample Rating Trend

# **VIS DEBRIS**

# BOSS XTO-PLU 158 (S/N 118257)

Compressor

**TULCO LUBSOIL LPG WS 150 (8 GAL)** 

# **COMPONENT CONDITION SUMMARY**

No relevant graphs to display

# RECOMMENDATION

We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Debris	scalar	*Visual	NONE	▲ MODER	NONE	▲ MODER

Customer Id: RICHOB Sample No.: TO90003372 Lab Number: 05867329 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

Action	Status	Date	Done By	Description
Change Filter	MISSED	Nov 30 2023	?	We recommend you service the filters on this component.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

# HISTORICAL DIAGNOSIS

### 16 Mar 2023 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.



# 20 Dec 2022 Diag: Don Baldridge

ISO



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. 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.

# view report

# 07 Nov 2022 Diag: Angela Borella

ISO



The filter change at the time of sampling has been noted. 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. 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**

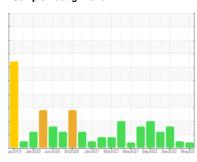
# Sample Rating Trend

# **VIS DEBRIS**

# **BOSS XTO-PLU 158 (S/N 118257)**

Compressor

**TULCO LUBSOIL LPG WS 150 (8 GAL)** 





# **DIAGNOSIS**

### Recommendation

We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

### Contamination

Moderate concentration of visible dirt/debris present in the oil.

# **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		pr2019 Jan202	20 Jun2020 Oct2020 Jan2	021 Mar2021 May2021 Sep2022 De	c2022 May202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90003372	TO90002834	TO90002729
Sample Date		Client Info		22 May 2023	16 Mar 2023	20 Dec 2022
Machine Age	hrs	Client Info		27729	26427	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	10	10
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m		<1	0	4
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	1
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>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	2	<1	<1
Calcium	ppm	ASTM D5185m	0	<1	2	2
Phosphorus	ppm	ASTM D5185m	0	254	290	334
Zinc	ppm	ASTM D5185m	0	0	<1	4
Sulfur	ppm	ASTM D5185m	0	141	71	94
CONTAMINANTS	<b>,</b>	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		2	2	8
Potassium	ppm	ASTM D5185m	>20	3	2	<1
Water	%	ASTM D6304	>2.26	0.915	0.701	0.644
ppm Water	ppm	ASTM D6304	>22600	9150	7010	6440
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		5393	<u> </u>
Particles >6µm		ASTM D7647	>1300		1222	<u> </u>
Particles >14μm		ASTM D7647	>320		85	86
Particles >21μm		ASTM D7647	>80		22	26
Particles >38μm		ASTM D7647	>20		1	6
Particles >71μm		ASTM D7647	>4		0	2
Oil Cleanliness		ISO 4406 (c)	>20/17/15		20/17/14	<u>^</u> 21/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	0.24	0.42



# OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : TO90003372 : 07 Jun 2023 : 10 Jun 2023

: 05867329 Diagnosed : 10507113 Diagnostician : Doug Bogart

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)

RICHARDS ENERGY COMPRESSION

1629 WEST BENDER HOBBS, NM

US 88240 Contact: BILL RICHARDSON

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Contact/Location: BILL RICHARDSON - RICHOB