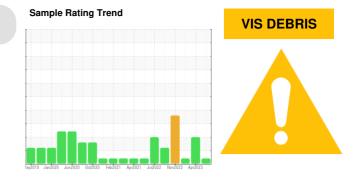


PROBLEM SUMMARY



BOSS XTO-NASH 56 (S/N 115761)

Compressor Fluid TULCO LUBSOIL LPG WS 150 (7 GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

	/END	
REC.		JIN

We recommend you service the filters on this component. 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.

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

Customer Id: RICHOB Sample No.: TO90003417 Lab Number: 05867324 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 <u>customerservice@wearcheck.com</u>

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



21 Apr 2023 Diag: Don Baldridge

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



17 Mar 2023 Diag: Don Baldridge



We recommend you service the filters on this component. 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.

07 Nov 2022 Diag: Angela Borella





We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of particulates present in the oil. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



view report

view report





OIL ANALYSIS REPORT

Sample Rating Trend
VIS DEBRIS

Compressor Fluid TULCO LUBSOIL LPG WS 150 (7 GAL)

BOSS XTO-NASH 56 (S/N 115761)

DIAGNOSIS

Machine Id

Component

Recommendation

We recommend you service the filters on this component. 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.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

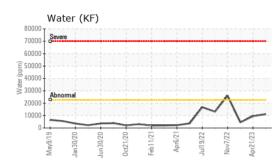
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

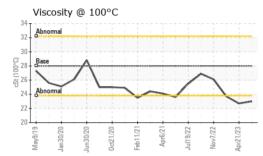
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90003417	TO90003400	TO90002837
Sample Date		Client Info		19 May 2023	21 Apr 2023	17 Mar 2023
Machine Age	hrs	Client Info		29067	28634	27911
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	11	11
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		<1	<1	2
Tin	ppm	ASTM D5185m	>15	2	0	<1
Vanadium	ppm	ASTM D5185m		- <1	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	<1	<1
Magnesium	ppm	ASTM D5185m	0	2	0	<1
Calcium	ppm	ASTM D5185m	0	0	14	47
Phosphorus	ppm	ASTM D5185m	0	197	0	5
Zinc	ppm	ASTM D5185m	0	0	15	11
Sulfur	ppm	ASTM D5185m	0	151	142	112
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	0	<1
Sodium	ppm	ASTM D5185m		<1	5	6
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water	%	ASTM D6304	>2.26	1.12	0.952	0.453
ppm Water	ppm	ASTM D6304	>22600	11200	9520	4530
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		1 33573	
Particles >6µm		ASTM D7647	>1300		▲ 39328	
Particles >14µm		ASTM D7647	>320		4 953	
Particles >21µm		ASTM D7647	>80		A 87	
Particles >38µm		ASTM D7647	>20		2	
Particles >71µm		ASTM D7647	>4		0	
Oil Cleanliness		ISO 4406 (c)	>20/17/15		▲ 24/22/17	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.03	0.19	0.34

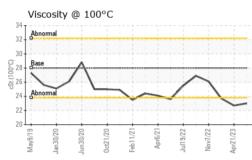
Contact/Location: BILL RICHARDSON - RICHOB

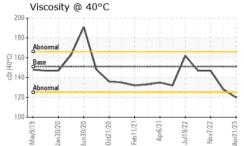


OIL ANALYSIS REPORT









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	🔺 MODER
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	125.0	120	128
Visc @ 100°C	cSt	ASTM D445	28	23.0	22.7	23.7
Viscosity Index (VI)	Scale	ASTM D2270	224	215	219	217
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				1944 1979 194 195 197 197 197 197 197 197 197 197 197 197	114 14-23 14-23	

Bottom

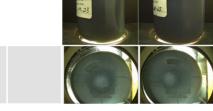
GRAPHS

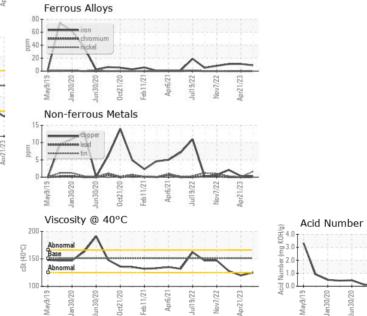
: TO90003417

: 05867324

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.





Received

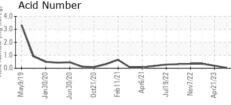
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

Diagnosed

: 07 Jun 2023

: 27 Jun 2023

Diagnostician : Doug Bogart



RICHARDS ENERGY COMPRESSION : WearCheck USA - 501 Madison Ave., Cary, NC 27513 1629 WEST BENDER HOBBS, NM US 88240 Contact: BILL RICHARDSON richardsenergy@windstream.net Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number : 10507108

Contact/Location: BILL RICHARDSON - RICHOB