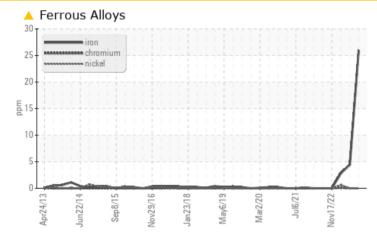


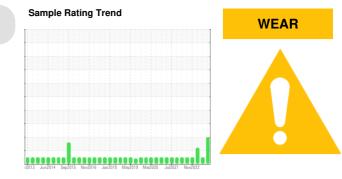
PROBLEM SUMMARY

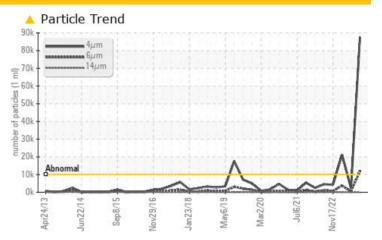
DUNHAM-BUSH TYSJAC 4 (S/N X2711)

Refrigeration Compressor Fluid USPI 1009-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	NORMAL	ABNORMAL			
Iron	ppm	ASTM D5185m	>8	<u> </u>	4	3			
Particles >4µm		ASTM D7647	>10000	🔺 87640	2331	<u> </u>			
Particles >6µm		ASTM D7647	>2500	<u> </u>	487	A 3793			
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 24/21/13	18/16/11	🔺 22/19/13			

Customer Id: TYSJAC Sample No.: USP0001829 Lab Number: 05963622 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				
Resample			?	We recommend an early resample to monitor this condition.				

HISTORICAL DIAGNOSIS





Resample at the next service interval to monitor.All 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 suitable for further service.



view report

13 Mar 2023 Diag: Doug Bogart

19 Jun 2023 Diag: Doug Bogart



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

NORMAL



17 Nov 2022 Diag: Doug Bogart

Resample at the next service interval to monitor.All 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 suitable for further service.







OIL ANALYSIS REPORT

Machine Id DUNHAM-BUSH TYSJAC 4 (S/N X2711)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition.

🔺 Wear

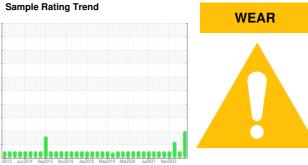
The iron level is abnormal.

Contamination

There is a high 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.



SAMPLE INFORMATION method limit/base current history1 history2 USP0001829 USP250141 USP249043 Sample Number **Client Info** Sample Date Client Info 27 Sep 2023 19 Jun 2023 13 Mar 2023 0 0 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 0 0 Oil Changed N/A N/A N/A **Client Info** Sample Status ABNORMAL NORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 26 4 3 Iron ppm ASTM D5185m >8 Chromium ASTM D5185m >2 0 0 ppm <1 Nickel ppm ASTM D5185m 0 0 <1 Titanium ASTM D5185m 0 0 <1 ppm 0 Silver ppm ASTM D5185m >2 0 <1 Aluminum ASTM D5185m >3 0 0 ppm <1 Lead ASTM D5185m >2 0 0 0 ppm ASTM D5185m 0 >8 0 Copper ppm <1 Tin ppm ASTM D5185m >4 0 0 0 Vanadium ASTM D5185m 0 0 ppm <1 Cadmium ppm ASTM D5185m 0 0 0 historv1 **ADDITIVES** limit/base current history2 method 0 0 0 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 0 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m <1 1 0 0 ASTM D5185m 0 Magnesium ppm 0 0 0 Calcium ASTM D5185m ppm Phosphorus ppm ASTM D5185m 0 1 <1 Zinc ASTM D5185m 0 0 0 ppm 50 Sulfur 10 0 ppm ASTM D5185m 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 <1 3 0 0 Sodium ppm ASTM D5185m <1 Potassium ASTM D5185m >20 0 0 <1 ppm 0.003 0.005 Water % ASTM D6304 >0.01 0.003 35.5 ppm Water 55.3 30.2 ASTM D6304 >100 ppm FLUID CLEANLINESS limit/base method current history1 history2 Particles >4µm ASTM D7647 >10000 87640 2331 ▲ 21270 11908 >2500 487 ▲ 3793 Particles >6µm ASTM D7647 Particles >14µm ASTM D7647 >320 60 13 52 Particles >21µm ASTM D7647 >80 3 4 10 Particles >38µm ASTM D7647 >20 0 1 0 Particles >71µm ASTM D7647 >4 0 0 0 **Oil Cleanliness** 24/21/13 ISO 4406 (c) >20/18/15 18/16/11 22/19/13

Acid Number (AN)

FLUID DEGRADATION

TION method limit/ mg KOH/g ASTM D974 0.005

limit/base

current

0.015

0.015

history1

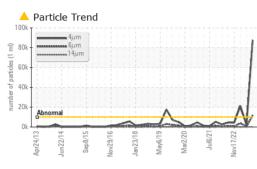
history2

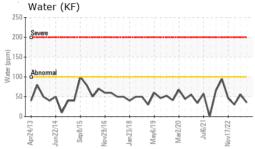
0.015

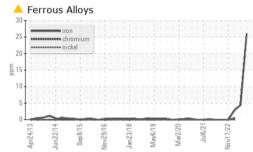


OIL ANALYSIS REPORT

method







Acid Number

0.0

KOH/g)

(mg

Acid Nu

0.00

250

200

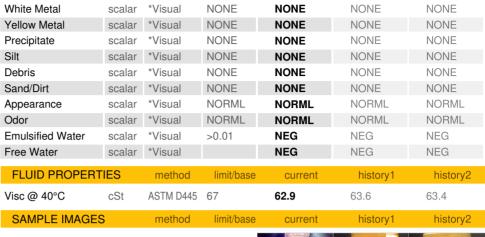
<u>ال</u> 150

Nater 100

50

Apr24/

Water (KF)



limit/base

current

Color

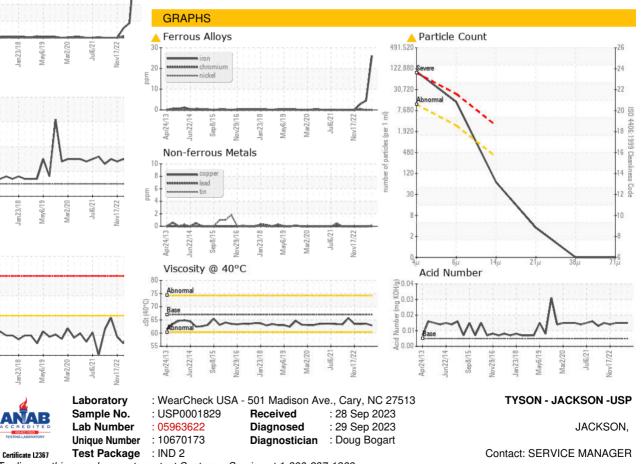
VISUAL



history1

history2

Bottom



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)