

140

120

100

80 ppm

60

40

20 C

Apr24/13

PROBLEM SUMMARY

FRICK TYSJAC 5 (S/N S012FFMPTHAB2) Component

Nov6/18

Jan23/18

Nov6/19

Mar28/22

Jun 19/23

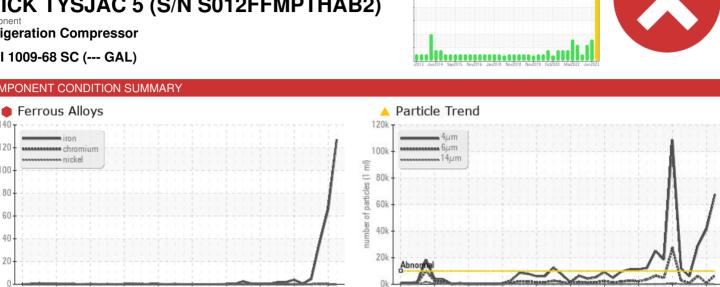
0ct13/20

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

COMPONENT CONDITION SUMMARY

iron

nickel



Apr24/13

Jun22/14

Sample Rating Trend

WEAR

RECOMMENDATION

Jun22/14

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Sep 8/15

Vov29/16

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>8	🛑 127	66	37		
Particles >4µm		ASTM D7647	>10000	🔺 67583	4 1213	2 9371		
Particles >6µm		ASTM D7647	>2500	6728	944	6 144		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 23/20/14	🔺 23/17/11	<u> </u>		

Sep8/15

Vov29/16

Jan23/18

Nov6/19

0ct13/20

Mar28/22

Nov6/18

Jun19/23

Customer Id: TYSJAC Sample No.: USP0001826 Lab Number: 05963627 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		
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS



19 Jun 2023 Diag: Doug Bogart

Resample at the next service interval to monitor. The iron level is abnormal. There is a high amount of silt (particulates < 6 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.



view report

13 Mar 2023 Diag: Doug Bogart



Resample at the next service interval to monitor. An increase in the iron level is noted. 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.

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

FRICK TYSJAC 5 (S/N S012FFMPTHAB2)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

• Wear

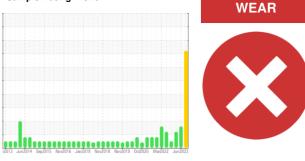
The iron level is severe.

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.

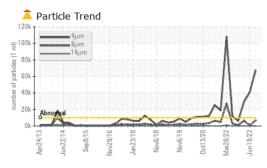


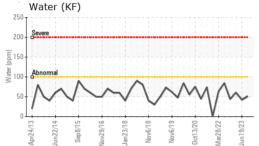
Sample Rating Trend

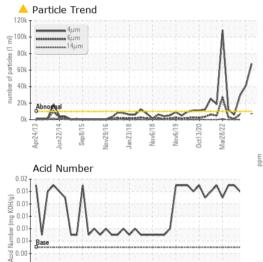
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0001826	USP250142	USP249044
Sample Date		Client Info		27 Sep 2023	19 Jun 2023	13 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	127	66	37
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>3	<1	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m		0	<1	<1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	9	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	0	1
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.01	0.005	0.004	0.006
ppm Water	ppm	ASTM D6304	>100	50.4	42.3	60.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	67583	41213	2 9371
Particles >6µm		ASTM D7647	>2500	<u> </u>	944	6 144
Particles >14µm		ASTM D7647	>320	157	19	143
Particles >21µm		ASTM D7647	>80	22	2	23
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 23/20/14	<u> </u>	<u>22/20/14</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.015	0.014	0.014



OIL ANALYSIS REPORT







0.00

0.00

250

200

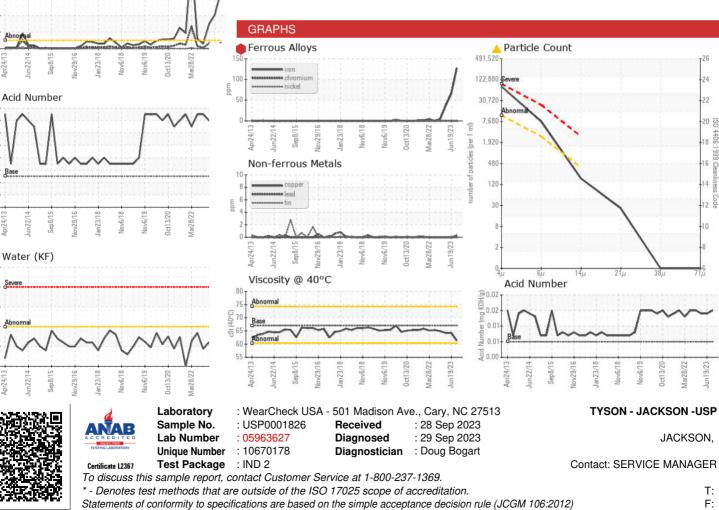
E 150

Nater 100

50

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	NONE	NONE	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	>0.01	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	67	61.3	64.2	64.2
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color						

Bottom



Contact/Location: SERVICE MANAGER - TYSJAC