

OIL ANALYSIS REPORT

ISO

Machine Id

FRICK TYSROGCNQ 3

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

Recommendation

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.

		#2013 Jul20	14 Jun2016 Oct2017	Dec2018 Sep2020 Oct2021	War2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011383	USP0005400	USP0003214
Sample Date		Client Info		06 May 2024	23 Jan 2024	09 Oct 2023
Machine Age	hrs	Client Info		22754	21338	20077
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	2	2	2
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	<1	<1
Lead	ppm	ASTM D5185m	>2	<1	<1	0
Copper	ppm	ASTM D5185m	>8	<1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		1	0	0
Volybdenum	ppm	ASTM D5185m		<1	0	0
Vanganese	ppm	ASTM D5185m		0	<1	<1
Vagnesium	ppm	ASTM D5185m		<1	1	0
Calcium	ppm	ASTM D5185m		0	1	0
Phosphorus	ppm	ASTM D5185m		0	<1	<1
Zinc	ppm	ASTM D5185m		2	0	0
Sulfur	ppm	ASTM D5185m	50	0	13	10
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	<1
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>0.01	0.008	0.005	0.007
ppm Water	ppm	ASTM D6304	>100	81	50	73.9
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		14543	3581	405
Particles >6µm		ASTM D7647	>2500	<mark> </mark> 2958	425	98
Particles >14µm		ASTM D7647	>320	35	15	19
Particles >21µm		ASTM D7647	>80	7	5	7
Particles >38µm		ASTM D7647	>20	1	1	1
Particles >71µm		ASTM D7647	>4	0	0	0
		100 4400 ()	4045			

Oil Cleanliness ISO 4406 (c) >--/18/15 **21/19/12** 19/16/11 16/14/11 mg KOH/g ASTM D974 0.005 0.013 0.014 Acid Number (AN) 0.015

Contact/Location: SERVICE MANAGER - TYSROGCNQ



0.03 KOH 0.02

0.0 Acid

0.0

0.00

400

E 300

Vater 002

A 100

Mar21/

72

70

cSt (40°C) 99 89

62

60

5

1/6Inf Mar21

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scalar

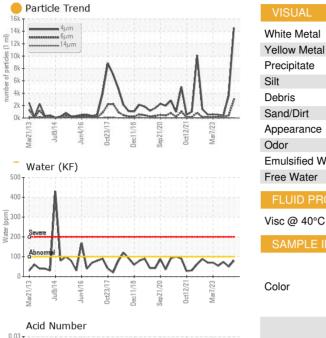
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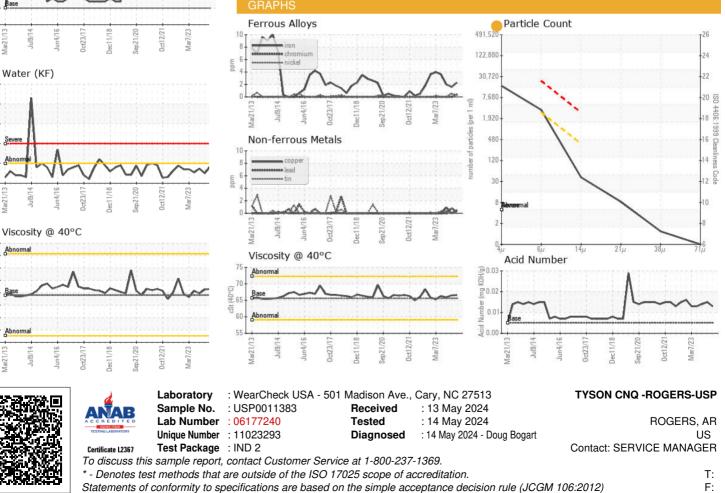
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Contact/Location: SERVICE MANAGER - TYSROGCNQ

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