

# **OIL ANALYSIS REPORT**

Sample Rating Trend

### NORMAL

## Machine Id FRICK TYSWAT 10 FR (S/N S0099HFMFTOAA3)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

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

SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012327	USP0007614	USP0001255
Sample Date		Client Info		14 Jul 2024	26 Feb 2024	12 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	0 N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		2	2	<1
Chromium	ppm	ASTM D5185m	, 0	0	<1	0
Nickel	ppm	ASTM D5185m	~~	0	0	0
Titanium		ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
	ppm			-		
Aluminum	ppm	ASTM D5185m		0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
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		0	0	<1
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m		0	0	<1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	8
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.01	0.003	0.003	0.002
ppm Water	ppm	ASTM D6304	>100	29	30	24.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	953	2164	4118
Particles >6µm		ASTM D7647	>2500	320	523	1201
Particles >14µm		ASTM D7647	>320	14	17	38
Particles >21µm		ASTM D7647	>80	3	3	4
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/11	18/16/11	19/17/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.015	0.014	0.014
. /	- 5					

Contact/Location: ED ALBERT - IBPWAT01



250

20

E 150

51

50

Ê 40

S 301

20

10 0

250

200 <u>ل</u> ط 150 Water 5

80

75

(40°C)

53 6!

60

55

50

Ê 40

· 301

5 201

Viscosity @ 40°C

/I/I/well

Particle Trend

1av16/16 ah13/15 ec23/19

Water

# **OIL ANALYSIS REPORT**

\*Visual

\*Visual

\*Visual

\*Visual

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ASTM D445

NONE

NONE

NONE

NONE

NONE

NONE

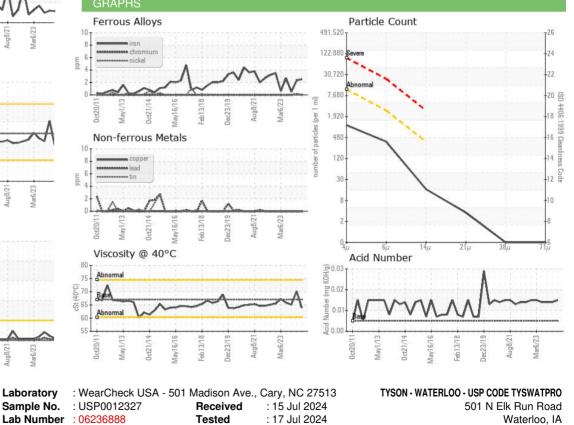
NORML

NORML

>0.01

67





: 17 Jul 2024 - Jonathan Hester



Lab Number Unique Number : 11125722 Test Package : IND 2 Certificate 12367

1g8/21

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)

Diagnosed

T: (319)236-9328 F: (319)236-9393

Contact: ED ALBERT

Report Id: IBPWAT01 [WUSCAR] 06236888 (Generated: 07/17/2024 15:05:01) Rev: 1

Contact/Location: ED ALBERT - IBPWAT01

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

70.2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

65.1

NONE

NONE

NONE

NONE

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NONE

NORML

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63.9

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