

OIL ANALYSIS REPORT

Machine Id FRICK TYSTEM SC-23 (S/N MK4E/WRV255/13036/212)

Refrigeration Compressor

Fluic USPI ALT-68 SC (--- LTR)

DIAGNOSIS

A Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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.

		2012 Aug20	14 May2016 Aug2017	Oct2018 Mar2020 Jul2021 F	eb2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008076	USP0004261	USP0002020
Sample Date		Client Info		02 Apr 2024	27 Dec 2023	11 Sep 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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	4	3	8
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	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	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	0
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.01	0.004	0.003	0.007
ppm Water	ppm	ASTM D6304	>100	42	32	70.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		107558	37930	22122
Particles >6µm		ASTM D7647	>2500	<u> </u>	▲ 6306	<u> </u>
Particles >14µm		ASTM D7647	>320	79	74	104
Particles >21µm		ASTM D7647	>80	7	6	8
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	4/21/13	A 22/20/13	▲ 22/20/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.015

Sample Rating Trend

ISO

Report Id: TYSTEM [WUSCAR] 06137472 (Generated: 04/05/2024 20:55:27) Rev: 1

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350

300

= 250

2001

150

100

50

0

250

20

E 150

Nater 100

5

0.05

(B/H0) Ê 0.03 2003 Dig O.(

0.00

25

20

E 150

Nater 100

5

74 72

70

(0.068 (0.05) (0.05

62

60

58

Ba

Ab

Sep6/1

Viscosity @ 40°C

В

Sep 6,

Acid Number

Aug 13/1 /lav6/1

Water (KF)

108/1

OIL ANALYSIS REPORT

method

*Visual

*Visual

*Visua

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

method

ASTM D445

method

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

>0.01

65.6

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

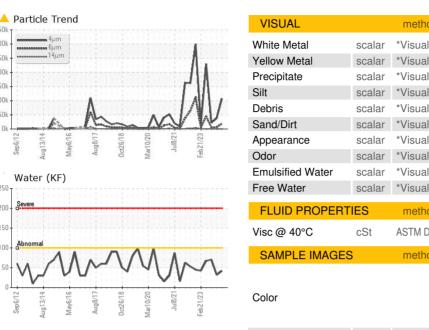
NORML

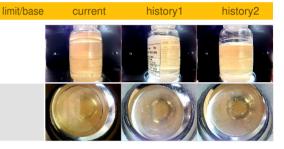
curren

NEG

NEG

67.7





history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

68.0

history2

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

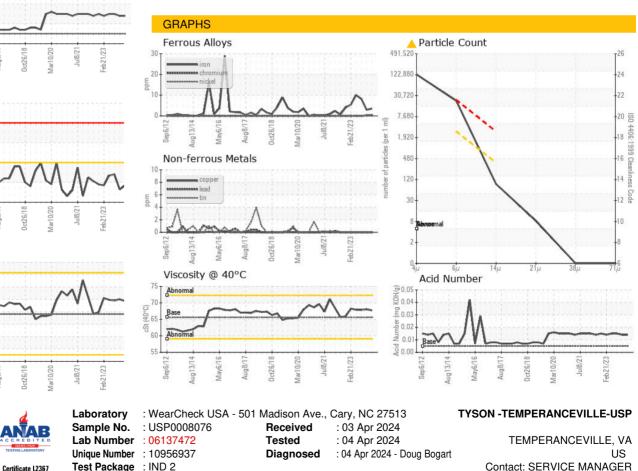
history2

NEG

NEG

67.8

Bottom



Test Package : IND 2

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)

T: F:

Contact/Location: SERVICE MANAGER - TYSTEM