

OIL ANALYSIS REPORT

ISO

Machine Id

FES TYSNRH HS103 (S/N X7126)

Component Refrigeration Compressor

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

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

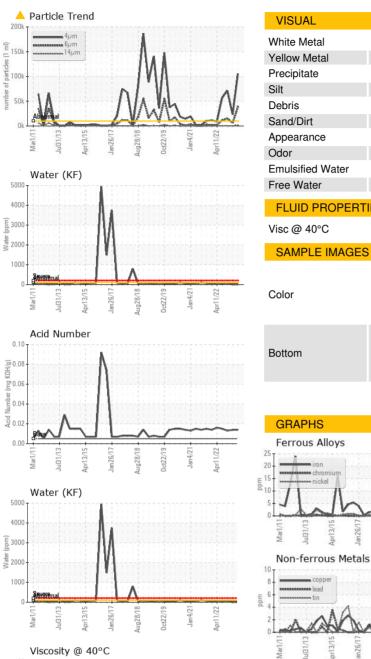
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

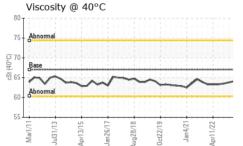
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006734	USP0004960	USP0001223
Sample Date		Client Info		11 Apr 2024	15 Jan 2024	15 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	1	0	1
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m		<1	0	2
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	1	0	0
Lead	ppm	ASTM D5185m	>2	1	0	<1
Copper	ppm	ASTM D5185m		<1	<1	2
Tin	ppm	ASTM D5185m	>4	1	0	0
Vanadium	ppm	ASTM D5185m		- <1	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		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
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	2
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	3	3
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.01	0.001	0.001	0.004
ppm Water	ppm	ASTM D6304	>100	5	10	42.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	A 105016	23306	▲ 71297
Particles >6µm		ASTM D7647	>2500	<u> </u>	6165	1 5144
Particles >14µm		ASTM D7647	>320	<u> </u>	272	A 356
Particles >21µm		ASTM D7647	>80	<u> </u>	43	37
Particles >38µm		ASTM D7647	>20	1	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 24/22/18	22/20/15	▲ 23/21/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.013

Contact/Location: JOHN MORGAN - TYSNORTX



OIL ANALYSIS REPORT





Cer



d	Laboratory
NAR	Sample No.
CREDITED	Lab Number
STING LABORATORY	Unique Number
tificate L2367	Test Package
d'a sure a data	

Lab Number	: 06147382
Unique Number	: 10977460
Test Package	: IND 2
his sample report	contact Cus

Tested Diagnosed

Received : 12 Apr 2024 : 15 Apr 2024 : 15 Apr 2024 - Doug Bogart

Apr11/22 -

- **TYSON-NORTH RICHLAND HILLS-USP** 6350 BLOWN CT NORTH RICHLAND HILLS, TX US 76180 Contact: JOHN MORGAN
- To discuss this sample report, contact Customer Service at 1-800-237-1369.

: USP0006734

* - 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)

an 26

an 26

an26/17

[nu]

Viscosity @ 40°C

pr13/15

8

75 40°C)

70

60

55

Mar1/1

Apr13/15 an 26/1

> T: (817)514-3519 F:

Report Id: TYSNORTX [WUSCAR] 06147382 (Generated: 04/15/2024 21:18:05) Rev: 1

Contact/Location: JOHN MORGAN - TYSNORTX

Page 2 of 2

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Jan 4/21

20 28

4406

1999 Cle

6

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	LIGHT	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	64.1	63.8	63.5
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					NH3-1 NH	
Bottom						

A Particle Count

Acid Number

491 52

122,88

30,72

7,68

480

120

30

(B(0.10) KOH(d)

E 0.06

ම් 0.04

U.02

0.00 P

Mar1

Der 1,920

or11/27

an4/2 pr11/22

Jan4/21.

Jct22/19

: WearCheck USA - 501 Madison Ave., Cary, NC 27513