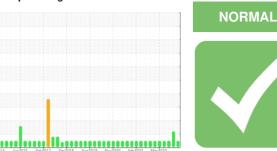


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# FES TYSRUSFP HS-4 (S/N S0493)

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

## DIAGNOSIS

## 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.

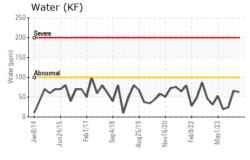
# **Fluid Condition**

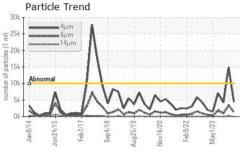
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

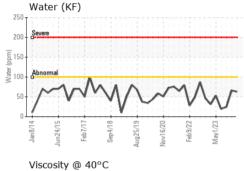
1/2014 Juni/2015 Feb.2017 Sep.2018 Aug/2019 Nov/2020 Feb.2022 May/2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006545	USP0006944	USP0002988
Sample Date		Client Info		23 Apr 2024	18 Feb 2024	31 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	1	0	0
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	0	0
Lead	ppm	ASTM D5185m	>2	<1	<1	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
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		0	0	0
Magnesium	ppm	ASTM D5185m		<1	<1	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	<1	12
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	2
Sodium	ppm	ASTM D5185m		<1	1	1
Potassium	ppm	ASTM D5185m	>20	<1	2	3
Water	%	ASTM D6304	>0.01	0.006	0.006	0.002
ppm Water	ppm	ASTM D6304	>100	63	66	24.5
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	4511	14881	4258
Particles >6µm		ASTM D7647	>2500	1286	3422	931
Particles >14µm		ASTM D7647	>320	67	123	24
Particles >21µm		ASTM D7647	>80	9	17	5
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/13	21/19/14	19/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.053	0.015

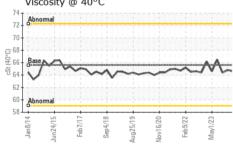


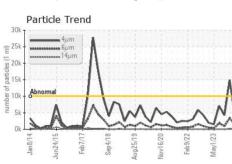
# **OIL ANALYSIS REPORT**











VISUAL		method				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
<b>Emulsified Water</b>	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	TIEC	ام مالم مما	15 14-/1		la i a t a un urd	history.O

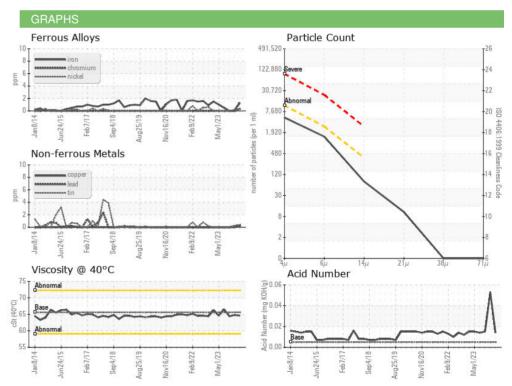
FLUID PROPER	THES	method			riistory i	nistory∠
Visc @ 40°C	cSt	ASTM D445	65.6	64.6	64.8	64.4

SAMPLE IMAGES	method	

Color

**Bottom** 









Certificate 12367

Laboratory

Sample No.

: USP0006545 Lab Number : 06159173 Unique Number : 10994596 Test Package : IND 2

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

: 25 Apr 2024 Diagnosed

: 26 Apr 2024 - Jonathan Hester

: 24 Apr 2024

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)

**TYLER ROAD** 

US

T:

F:

RUSSELLVILLE, AR

TYSON FP-RUSSELVILLE-USP

Contact: SERVICE MANAGER