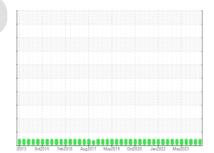


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id

# FES TYSOLA C-3 (S/N 00041036)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Moor

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.

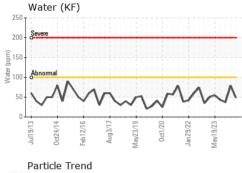
## **Fluid Condition**

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

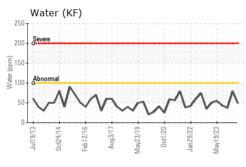
		12013 Oct20	14 Feb2016 Aug2017	May2019 Oct2020 Jan2022 N	Tay2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012678	USP0007563	USP0003836
Sample Date		Client Info		24 May 2024	22 Feb 2024	18 Nov 2023
Machine Age	hrs	Client Info		103754	101403	102103
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	0	<1
Chromium	ppm	ASTM D5185m	>2	<1	0	<1
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	<1	1	<1
Copper	ppm	ASTM D5185m	>8	<1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	3	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water	%	ASTM D6304	>0.01	0.004	0.007	0.003
ppm Water	ppm	ASTM D6304	>100	48	79	37
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		974	871	744
Particles >6µm		ASTM D7647	>2500	123	104	122
Particles >14µm		ASTM D7647	>320	9	5	9
Particles >21µm		ASTM D7647	>80	2	1	4
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	17/14/10	17/14/10	17/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.013	0.014

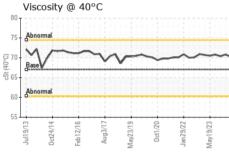


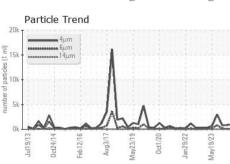
# **OIL ANALYSIS REPORT**



20k	ticle 7						
15k -		μm	1				
10k - 10k - 5k - 5k			-/				
5k							
0k	A	_		W	ما		
Jul19/13	)ct24/14	Feb12/16	Aug3/17	May23/19	Oct1/20	Jan 29/22	May19/23







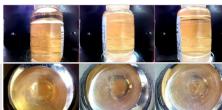
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPERT	TIES	method	limit/base	current	history1	history2

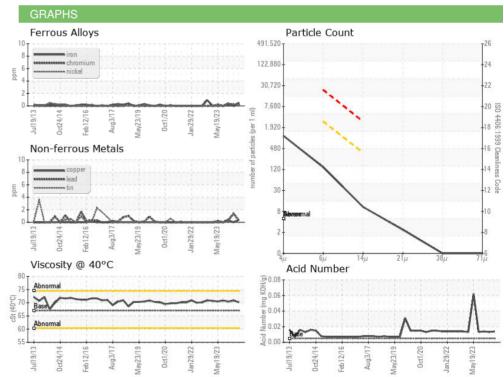
I LOID I HOI LITT	ILO	memou			HISTORY	HISTOLYZ
Visc @ 40°C	cSt	ASTM D445	67	70.2	70.8	70.4

SAMPLE IMAGES

Color











Certificate 12367

Laboratory Sample No.

Unique Number : 11060357

Test Package : IND 2

: USP0012678 Lab Number : 06198234

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

Received **Tested** 

: 03 Jun 2024 : 06 Jun 2024

Diagnosed : 06 Jun 2024 - Doug Bogart **TYSON DC -OLATHE-USP** 

OLATHE, KS US Contact: ROCKY DENNIS

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)

Report Id: TYSOLA [WUSCAR] 06198234 (Generated: 06/07/2024 21:34:57) Rev: 1

Contact/Location: ROCKY DENNIS - TYSOLA

T:

F: