

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



Machine Id

# FES TYSCUM 1-17 FES (S/N MK2XD0103)

Refrigeration Compressor

USPI ALT-68 SC (--- QTS)

#### 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.

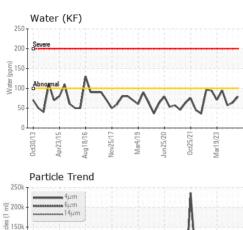
## **Fluid Condition**

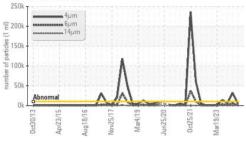
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

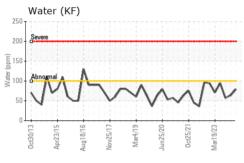
		12013 Apr20	15 Aug2016 Nov2017	Mar2019 Jun2020 Oct2021 N	Tar2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012426	USP0006899	USP0002712
Sample Date		Client Info		09 Jun 2024	15 Feb 2024	23 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		1	1	1
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	<1	0
Copper	ppm	ASTM D5185m	>8	0	<1	0
Tin	ppm	ASTM D5185m	>4	0	<1	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		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	1	0
Calcium	ppm	ASTM D5185m		1	1	0
Phosphorus	ppm	ASTM D5185m		0	0	<1
Zinc	ppm	ASTM D5185m		0	0	<1
Sulfur	ppm	ASTM D5185m	50	38	<1	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	1
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	2	2	<1
Water	%	ASTM D6304	>0.01	0.007	0.006	0.005
ppm Water	ppm	ASTM D6304	>100	79	64	57.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	4763	<u></u> 31811	6177
Particles >6µm		ASTM D7647	>2500	923	<u>▲</u> 5453	1637
Particles >14μm		ASTM D7647	>320	12	168	77
Particles >21µm		ASTM D7647	>80	1	28	15
Particles >38μm		ASTM D7647	>20	0	1	2
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/11	<u>22/20/15</u>	20/18/13
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

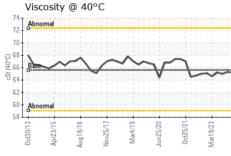


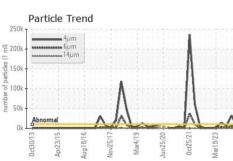
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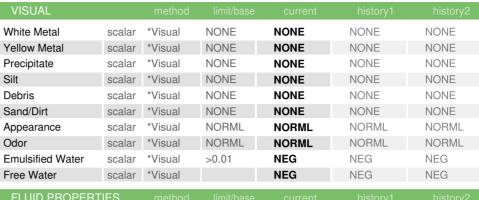












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Visc @ 40°C	cSt	ASTM D445	65.6	65.2	65.3	65.0

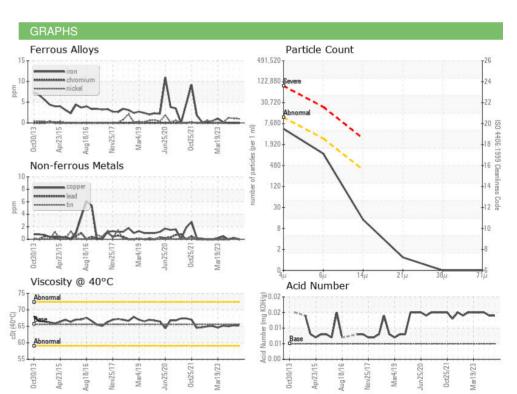
SAMPL	_E IMA	GES

**Bottom** 

Color











Certificate 12367

Laboratory Sample No. Lab Number

Test Package : IND 2

: USP0012426

: 06205545 Unique Number : 11073006

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jun 2024

**Tested** : 14 Jun 2024 Diagnosed : 14 Jun 2024 - Doug Bogart TYSON -CUMMING-USP

CUMMING, GA US 30130

T: (402)423-6375

F: (402)423-6661

Contact: BRENT SMITH

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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: TYSCUMGA [WUSCAR] 06205545 (Generated: 06/15/2024 09:36:04) Rev: 1

Contact/Location: BRENT SMITH - TYSCUMGA