

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# FES TYSGOO 2-400 (S/N 00317011)

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

### DIAGNOSIS

#### 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.

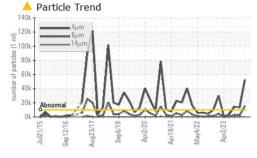
#### **Fluid Condition**

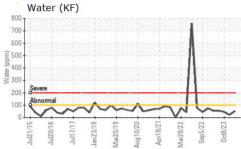
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

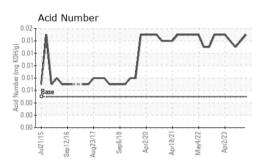
2015 Sep2016 Aug2017 Sep2018 Ap72020 Ap2021 Mep2022 Ap72023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		USP234858	USP247161	USP0001421	
Sample Date		Client Info		27 Apr 2024	16 Jan 2024	08 Oct 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	ATTENTION	ATTENTION	
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		0	0	<1	
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	0	0	0	
Copper	ppm	ASTM D5185m	>8	0	<1	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		<1	<1	0	
Magnesium	ppm	ASTM D5185m		0	<1	0	
Calcium	ppm	ASTM D5185m		0	<1	0	
Phosphorus	ppm	ASTM D5185m		0	0	0	
Zinc	ppm	ASTM D5185m		0	2	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	>10	<1	0	0	
Potassium	ppm	ASTM D5185m	>20	0	0	<1	
Water	%	ASTM D5103111	>0.01	0.005	0.002	0.004	
ppm Water	ppm	ASTM D6304	>100	52	22	45.7	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>10000	<b>△</b> 52304	13313	14429	
Particles >6µm		ASTM D7647	>2500	<b>15720</b>	2322	2772	
Particles >14µm		ASTM D7647	>320	<b>▲</b> 352	65	35	
Particles >21µm		ASTM D7647	>80	41	11	6	
Particles >38µm		ASTM D7647	>20	0	1	0	
Particles >71µm		ASTM D7647	>4	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	△ 23/21/16	21/18/13	21/19/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.015	0.014	0.013	

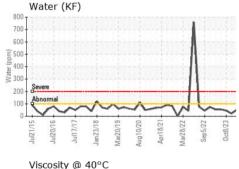


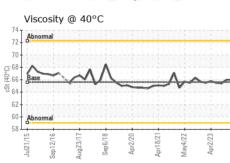
## **OIL ANALYSIS REPORT**









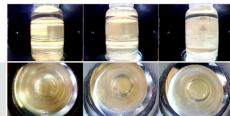


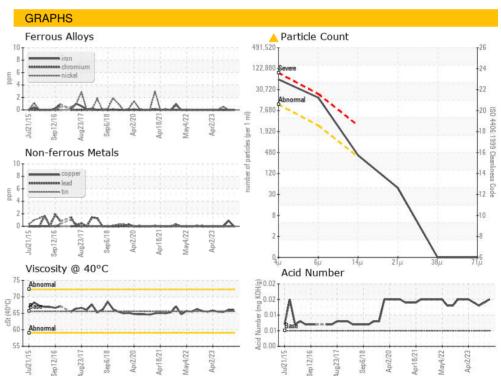
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	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	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	66.0	66.0	65.4

SAMPLE IMAGES	method	limit/base	current	history1	history

Color











Certificate 12367

Laboratory

Sample No.

Test Package : IND 2

: USP234858 Lab Number : 06161579 Unique Number : 10997002

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Apr 2024 **Tested** : 30 Apr 2024

Diagnosed : 30 Apr 2024 - Doug Bogart

GOODLETTSVILLE, TN

US 37072 Contact: JOHN BAKER

201 CARTWRIGHT STREET

**TYSON - GOODLETTS VILLE-USP** 

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: TYSGOO [WUSCAR] 06161579 (Generated: 05/04/2024 05:44:18) Rev: 1

Contact/Location: JOHN BAKER - TYSGOO

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