

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id

# **DB/FES TYSCUM1-5 DB/FES (S/N 1615-5086)**

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.

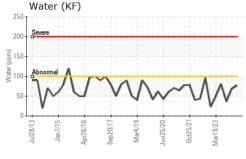
# **Fluid Condition**

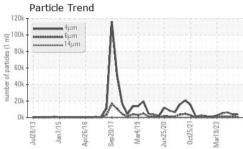
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

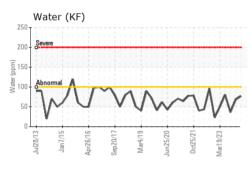
2013 Jan2015 Apr2016 Sept2017 Med2019 Jun2020 Oct2021 Med2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		USP0012410	USP0006903	USP0002715	
Sample Date		Client Info		09 Jun 2024	15 Feb 2024	23 Oct 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	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		0	0	<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	0	0	
Copper	ppm	ASTM D5185m	>8	0	0	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	<1	0	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		<1	0	0	
Magnesium	ppm	ASTM D5185m		0	0	0	
Calcium	ppm	ASTM D5185m		2	2	0	
Phosphorus	ppm	ASTM D5185m		1	0	<1	
Zinc	ppm	ASTM D5185m		0	0	0	
Sulfur	ppm	ASTM D5185m	50	66	67	67	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	2	1	2	
Sodium	ppm	ASTM D5185m		1	<1	0	
Potassium	ppm	ASTM D5185m	>20	2	1	<1	
Water	%	ASTM D6304	>0.01	0.007	0.006	0.003	
ppm Water	ppm	ASTM D6304	>100	77	68	36.4	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		3804	3683	6352	
Particles >6µm		ASTM D7647	>2500	640	973	1378	
Particles >14μm		ASTM D7647	>320	10	28	42	
Particles >21µm		ASTM D7647	>80	2	4	10	
Particles >38μm		ASTM D7647	>20	0	0	2	
Particles >71μm		ASTM D7647	>4	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>/18/15	19/16/10	19/17/12	20/18/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.029	0.014	

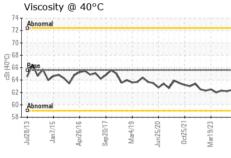


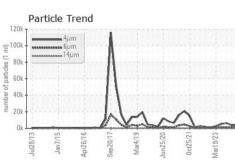
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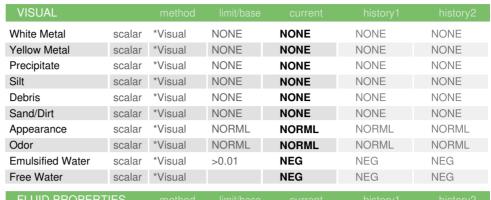








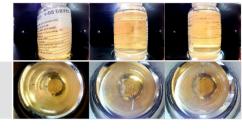


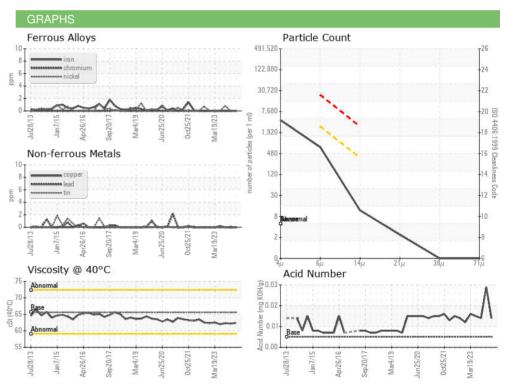


FLUID FROFEI	THES	method			HISTORY	HISTORYZ
Visc @ 40°C	cSt	ASTM D445	65.6	62.4	62.2	62.3

SAMPLE IMAGES	method	limit/base	current	history1	hist
Color			3 1-05 DB/FEI		

**Bottom** 









Certificate 12367

Lab Number

Laboratory Sample No.

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0012410 : 06205529

Unique Number : 11072990

Received : 10 Jun 2024 **Tested** : 13 Jun 2024

Diagnosed : 13 Jun 2024 - Doug Bogart TYSON -CUMMING-USP

CUMMING, GA US 30130 Contact: BRENT SMITH

T: (402)423-6375

F: (402)423-6661

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] 06205529 (Generated: 06/15/2024 07:49:04) Rev: 1

Contact/Location: BRENT SMITH - TYSCUMGA