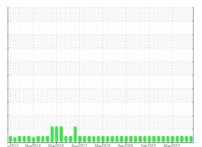


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id

# FES N6 FES HS1 (S/N 9843704D)

Refrigeration Compressor

Fluid

FES 2 (--- 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.

		y2013 Nov20	14 Mar2016 Aug2017	Mar2019 Sep2020 Feb2022 N	Tay2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006533	USP243343	USP243344
Sample Date		Client Info		20 Apr 2024	23 Jan 2024	27 Oct 2023
Machine Age	hrs	Client Info		113936	112585	111982
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	3	0	9
Chromium	ppm	ASTM D5185m	>2	<1	0	<1
Nickel	ppm	ASTM D5185m		<1	0	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	0	0
Copper	ppm	ASTM D5185m	>8	6	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
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	<1	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		0	1	1
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	2	4
Sulfur	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	8	6	4
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.01	0.003	0.001	0.004
ppm Water	ppm	ASTM D6304	>100	31	10	40.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	2176	559	1357
Particles >6µm		ASTM D7647	>2500	370	88	218
Particles >14μm		ASTM D7647	>320	19	8	9
Particles >21μm		ASTM D7647	>80	6	1	1
Particles >38μm		ASTM D7647	>20	0	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/11	16/14/10	18/15/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A at al. N.L. mada a.u. (A.N.I.)	I/OII/-	ACTM DOZA		0.060	0.014	0.000

Acid Number (AN)

mg KOH/g ASTM D974

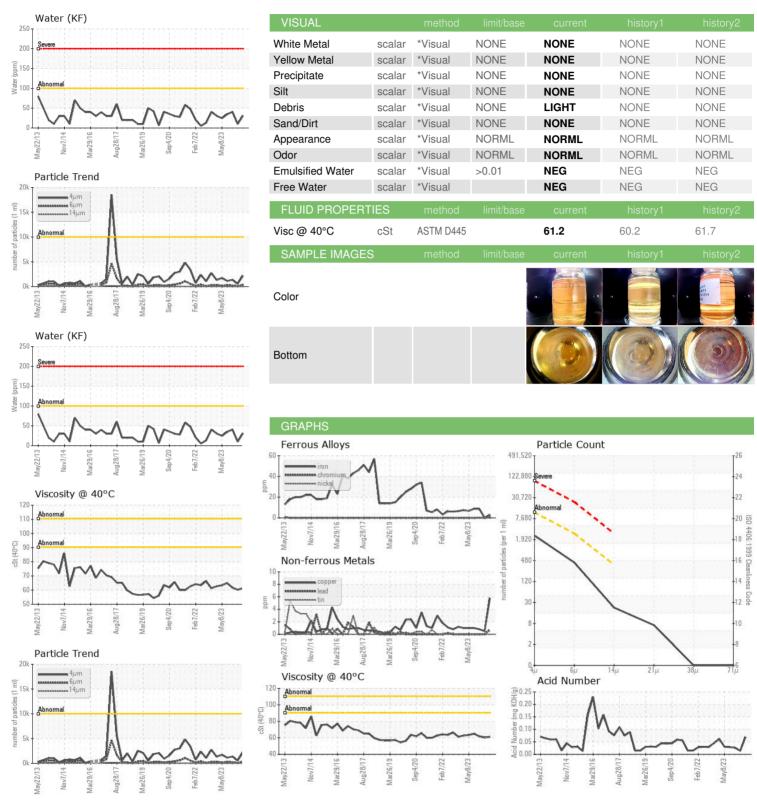
0.014

0.069

0.026



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: USP0006533 Lab Number : 06160433

Unique Number : 10995856 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024 **Tested** : 26 Apr 2024

Diagnosed : 30 Apr 2024 - Doug Bogart

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)

**JACOBS TECHNOLOGIES** 

ALLEN PARK, MI

US

T:

F:

Contact: