

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

FES N8 FES LARGE (S/N 9843704A)

Refrigeration Compressor

FES 2 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

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.

12014 May2016 May2017 May2019 Jun2019 Jun2020 Apr2021 Aug2022 May2023 Jun2024							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		USP0006538	USP243372	USP243373	
Sample Date		Client Info		20 Apr 2024	23 Jan 2024	27 Oct 2023	
Machine Age	hrs	Client Info		0	2387	2387	
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	2	0	4	
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	1	<1	<1	
Tin	ppm	ASTM D5185m	>4	<1	0	<1	
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	4	0	
CONTAMINANTS	;	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	1	0	1	
Sodium	ppm	ASTM D5185m		0	<1	0	
Potassium	ppm	ASTM D5185m	>20	<1	0	<1	
Water	%	ASTM D6304	>0.01	0.005	0.002	0.003	
ppm Water	ppm	ASTM D6304	>100	51	22	39.3	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4μm		ASTM D7647	>10000	4790	8566	6751	
Particles >6µm		ASTM D7647	>2500	447	906	855	
Particles >14μm		ASTM D7647	>320	10	19	15	
Particles >21µm		ASTM D7647	>80	4	4	3	
Particles >38μm		ASTM D7647	>20	0	0	0	
Particles >71μm		ASTM D7647	>4	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/16/10	20/17/11	20/17/11	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
A at al Niversia au (ANI)	I/OII/-	ACTM DOZA		0.014	0.014	0.014	

0.014

Acid Number (AN)

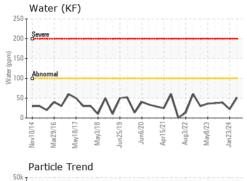
mg KOH/g ASTM D974

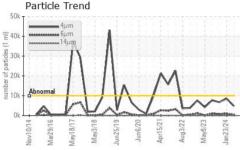
0.014

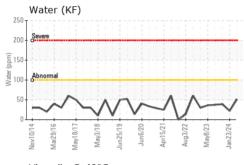
0.014

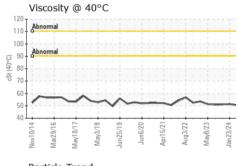


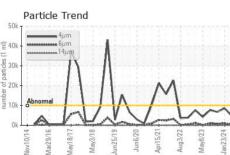
OIL ANALYSIS REPORT











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	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLID DDODEDI	mathad	limit/bass	Olivro ot	hiotomit	hiotom/2	
FLUID PROPERTIES		method	limit/base	current	history1	history2

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Visc @ 40°C	cSt	ASTM D445	50.6	51.3	51.2	

SAMPLE IMAGES

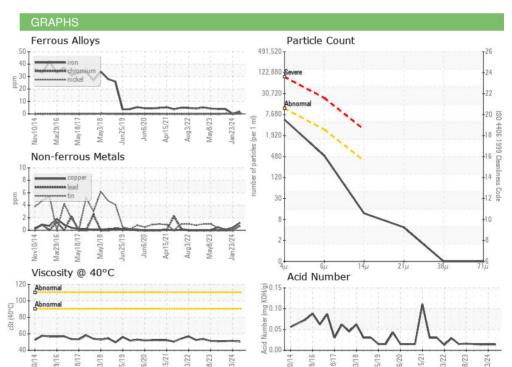
Color

Bottom













Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: USP0006538 Lab Number : 06160440 Unique Number : 10995863

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

Received : 25 Apr 2024 **Tested** : 26 Apr 2024

Diagnosed : 30 Apr 2024 - Doug Bogart **JACOBS TECHNOLOGIES**

ALLEN PARK, MI US Contact:

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)

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