

### **OIL ANALYSIS REPORT**

#### Sample Rating Trend

#### NORMAL

# FES N6 FES B2 (S/N 98437046)

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.

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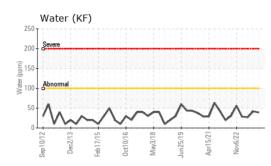
SAMPLE INFORM	IATION	method				history2
Sample Number		Client Info		USP243334	USP243332	USP243333
Sample Date		Client Info		27 Oct 2023	01 Aug 2023	08 May 2023
Machine Age	hrs	Client Info		13003	12651	11803
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	44	43	37
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m	~	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum		ASTM D5185m	>3	0	<1	0
Lead	ppm		>2	0	0	0
	ppm	ASTM D5185m				
Copper	ppm	ASTM D5185m	>8	0	<1 0	<1
Tin	ppm	ASTM D5185m	>4	0		<1
Vanadium	ppm	ASTM D5185m		0	<1	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		19	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	1	<1
Calcium	ppm	ASTM D5185m		2	0	0
Phosphorus	ppm	ASTM D5185m		35	0	0
Zinc	ppm	ASTM D5185m		4	0	0
Sulfur	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	7	4	4
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	1
Water	%	ASTM D6304	>0.01	0.003	0.004	0.003
ppm Water	ppm	ASTM D6304	>100	39.2	41.9	26.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	2649	6510	1048
Particles >6µm		ASTM D7647	>2500	119	988	276
Particles >14µm		ASTM D7647	>320	10	36	26
Particles >21µm		ASTM D7647	>80	2	6	5
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/14/10	20/17/12	17/15/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.051	0.046	0.044

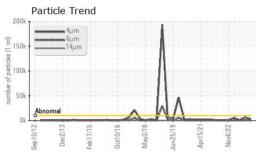


Water (KF)

250

## **OIL ANALYSIS REPORT**







Bottom

