

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

#### NORMAL

Machine Id

# FES SB1 BOOSTER (S/N 2512715)

Refrigeration Compressor

USPI 1009-68 SC (145 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.

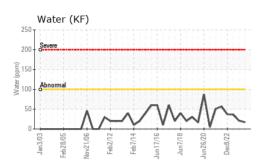
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0013296	USP0004146	USP250022
Sample Date		Client Info		07 Jun 2024	07 Dec 2023	08 Jun 2023
Machine Age	hrs	Client Info		1139	99112	97055
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1113	Client Info		N/A	N/A	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	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		۰ <1	1	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium		ASTM D5185m	24	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm	ASTIVI DOTODIII		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		0	<1	0
Zinc	ppm	ASTM D5185m		<1	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	<1
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	<1	0	1
Water	%	ASTM D6304	>0.01	0.002	0.002	0.003
ppm Water	ppm	ASTM D6304	>100	17	21	36.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		913	3398	2027
Particles >6µm		ASTM D7647	>2500	171	956	500
Particles >14µm		ASTM D7647	>320	6	37	26
		ASTM D7647		1	5	6
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >38µm		ASTM D7647 ASTM D7647		0	0	0
Particles >21μm Particles >38μm Particles >71μm Oil Cleanliness						
Particles >38µm Particles >71µm	TION	ASTM D7647	>4	0	0	0

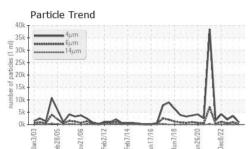
### n2003 Feb2005 Nov/2006 Feb2012 Feb2014 Jun2016 Jun2018 Jun2020 Dec2022

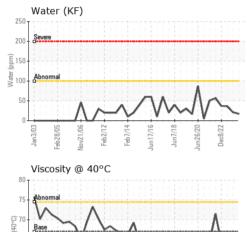
Contact/Location: SERVICE MANAGER ? - NORLEMNOR

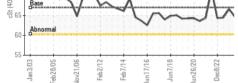


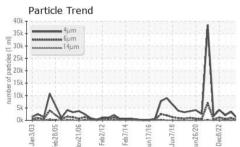
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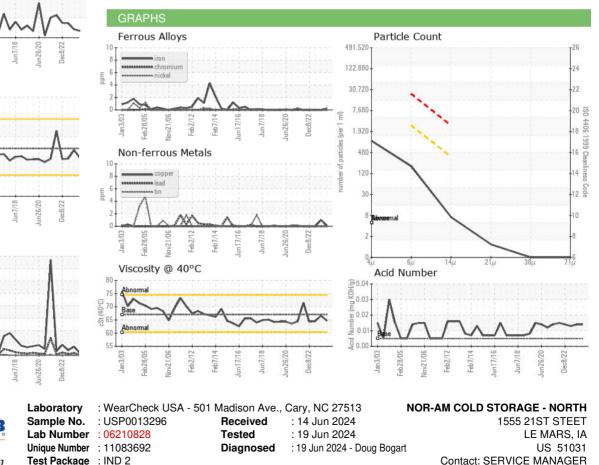








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	64.7	66.6	64.5
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				•	•	NH3 El Pro-V North WD: 2526867 VORLEMNOR
Bottom				$(\phi)$		





- 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) F: (712)548-4663

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Certificate 12367

Contact/Location: SERVICE MANAGER ? - NORLEMNOR

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