

# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# 2146-C-13 N FES 500 (S/N 2552784)

Refrigeration Compressor

**USPI 1009-68 SC (110 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 component. The amount and size of particulates present in the system is acceptable.

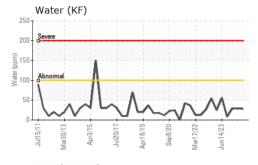
### **Fluid Condition**

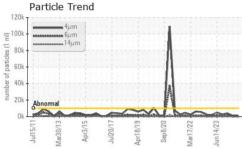
The TAN level is acceptable for this fluid. The condition of the oil is suitable for further service. Viscosity confirmed.

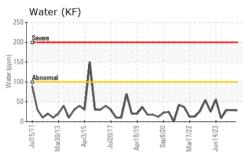
		il2011 Mar20	13 Apr2015 Jul2017	Apr2019 Sep2020 Mar2022 J	un 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0013110	USP0006143	USP0005000
Sample Date		Client Info		09 Jun 2024	13 Mar 2024	09 Dec 2023
Machine Age	hrs	Client Info		0	0	7814
Oil Age	hrs	Client Info		0	0	500
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	<1
Nickel	ppm	ASTM D5185m		0	0	0
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		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	11	4	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.01	0.003	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	28	29	29
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	713	798	3820
Particles >6µm		ASTM D7647	>2500	247	229	1208
Particles >14µm		ASTM D7647	>320	12	10	38
Particles >21µm		ASTM D7647	>80	2	2	5
Particles >38µm		ASTM D7647	>20	0	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/11	17/15/10	19/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.014	0.014

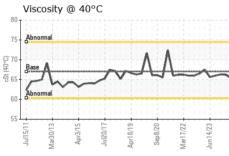


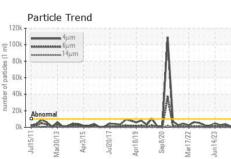
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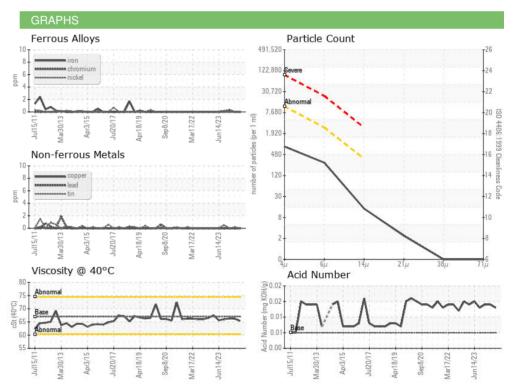
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method			riistory i	nistoryz	
Visc @ 40°C	cSt	ASTM D445	67	65.4	66.2	66.3	

SAMPLE IMAGES	method		history2
Onlar			Noti Frings

**Bottom** 









Laboratory Sample No. Lab Number : 06218298 Unique Number : 11096495

: USP0013110

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024

**Tested** : 25 Jun 2024 Diagnosed : 25 Jun 2024 - Doug Bogart

800 INDUSTRIAL ROAD DENISON, IA

**SMITHFIELD - DENISON - SMIDENIOW** 

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Contact: SERVICE MANAGER

Test Package : IND 2 Certificate 12367 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)