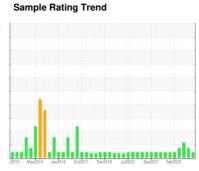


# **OIL ANALYSIS REPORT**

# **NH3** Compressor CARCAL-5 FES 385X HISTAGE (S/N 1089)

Refrigeration Compressor

USPI 1009-68 SC (--- 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.

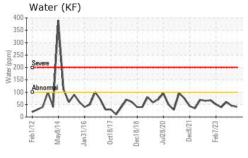
### **Fluid Condition**

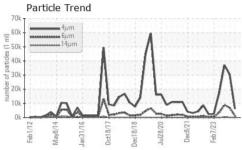
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

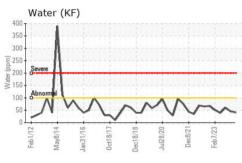
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008003	USP0005070	USP0003170
Sample Date		Client Info		04 Apr 2024	15 Jan 2024	19 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	0	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	>3	<1	1	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	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	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	1	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	68	475	380
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water	%	ASTM D6304	>0.01	0.004	0.004	0.006
ppm Water	ppm	ASTM D6304	>100	41	45	60.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6282	30645	36991
Particles >6µm		ASTM D7647	>2500	1263	<b>△</b> 6916	<b>▲</b> 8985
Particles >14µm		ASTM D7647	>320	44	183	<b>▲</b> 348
Particles >21µm		ASTM D7647	>80	7	27	59
Particles >38µm		ASTM D7647	>20	0	2	1
Particles >71µm		ASTM D7647	>4	0	1	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	20/17/13	<u>22/20/15</u>	<u>22/20/16</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.027	0.014	0.014

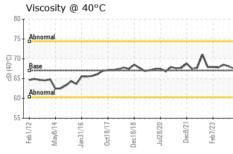


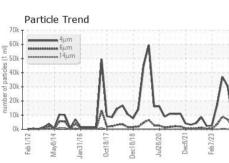
## **OIL ANALYSIS REPORT**

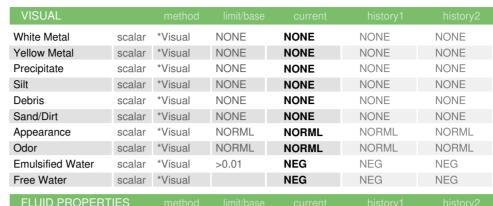








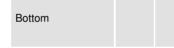




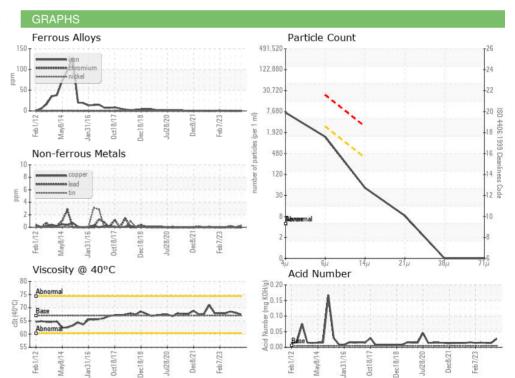
. 20.2						
Visc @ 40°C	cSt	ASTM D445	67	67.5	68.1	68.5

SAMPLE IMAGES	method	limit/base	current	history1	histor
				0.00	

Color











Laboratory Sample No.

Lab Number : 06139942 Unique Number : 10964750

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0008003 Received **Tested** 

: 08 Apr 2024 Diagnosed

: 08 Apr 2024 - Doug Bogart

: 05 Apr 2024

1001 E. SMITH STREET CALIFORNIA, MO US 65018

**CARGILL-CALIFORNIA** 

T: (573)796-7154

F: (573)796-3661

Contact: REFRIGERATION DEPT.

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)