

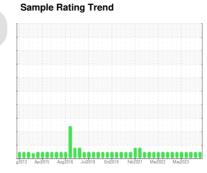
# **OIL ANALYSIS REPORT**

Area

# NH3 Compressor CARCAL-B3 RDB-222 BOOSTER (S/N S0069)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)





## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Woor

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.

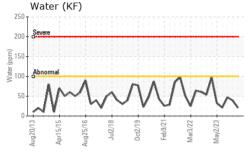
# **Fluid Condition**

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

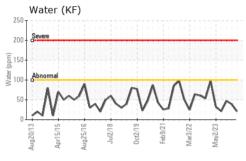
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008000	USP0005068	USP0003173
Sample Date		Client Info		25 Mar 2024	15 Jan 2024	19 Oct 2023
Machine Age	hrs	Client Info		145807	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	1	4	2
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
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	<1	<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		<1	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	956	1278	1212
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	4	0
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water	%	ASTM D6304	>0.01	0.002	0.003	0.004
ppm Water	ppm	ASTM D6304	>100	21	39	47.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1150	1159	1899
Particles >6µm		ASTM D7647	>2500	246	319	488
Particles >14μm		ASTM D7647	>320	14	18	20
Particles >21µm		ASTM D7647	>80	3	5	5
Particles >38μm		ASTM D7647	>20	0	1	0
Particles >71μm		ASTM D7647	>4	0	1	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	17/15/11	17/15/11	18/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.028	0.014	0.013

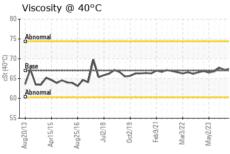


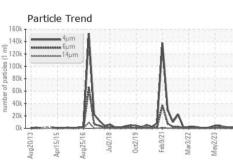
# **OIL ANALYSIS REPORT**

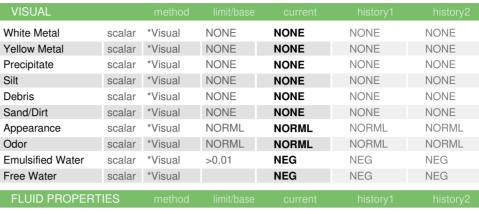


160		icle T	rend						
140k	***************************************		m m um			1			
number of particles 809 409 209							1		
.01	Aug20/13	Apr15/15	Aug25/16	Jul2/18	0ct2/19	Feb9/21-	Mar3/22	May2/23	









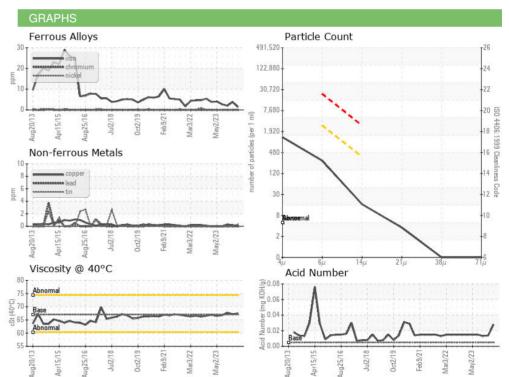
Visc @ 40°C	cSt	ASTM D445	67	67.5	67.2	67.7

SAMPLE IMAGES	

Color

**Bottom** 









Certificate 12367

Laboratory Sample No. Lab Number

: USP0008000 : 06139939 Unique Number : 10964747 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Apr 2024 **Tested** 

: 08 Apr 2024 Diagnosed

: 08 Apr 2024 - Doug Bogart

CALIFORNIA, MO US 65018

**CARGILL-CALIFORNIA** 

1001 E. SMITH STREET

Contact: REFRIGERATION DEPT.

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)

T: (573)796-7154 F: (573)796-3661