

OIL ANALYSIS REPORT

Area **NH3** Compressor CARCAL-B1 (S/N 3211447)

Refrigeration Compressor USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

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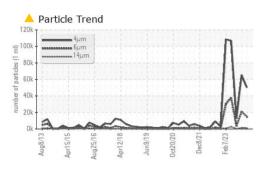
Sample Rating Trend

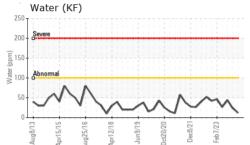
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008005	USP0005071	USP0003165
Sample Date		Client Info		04 Apr 2024	15 Jan 2024	19 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	2	0
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		0	<1	<1
Tin	ppm	ASTM D5185m	>4	۲ ح1	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	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	1333	1442	1420
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	1	<1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	%	ASTM D6304	>0.01	0.001	0.002	0.004
ppm Water	ppm	ASTM D6304		12	24	43.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		50191	65200	12806
Particles >6µm		ASTM D7647	>2500	A 14633	A 21208	3802
Particles >14µm		ASTM D7647	>320	1070	1 455	244
Particles >21µm		ASTM D7647		<u> </u>	▲ 331	56
Particles >38µm		ASTM D7647	>20	7	7	1
Particles >71µm		ASTM D7647		0	1	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	23/21/17	▲ 23/22/18	21/19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

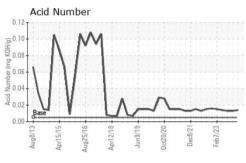
Contact/Location: REFRIGERATION DEPT. - CARCALMO

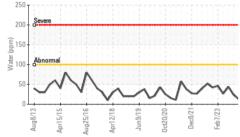


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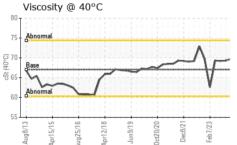






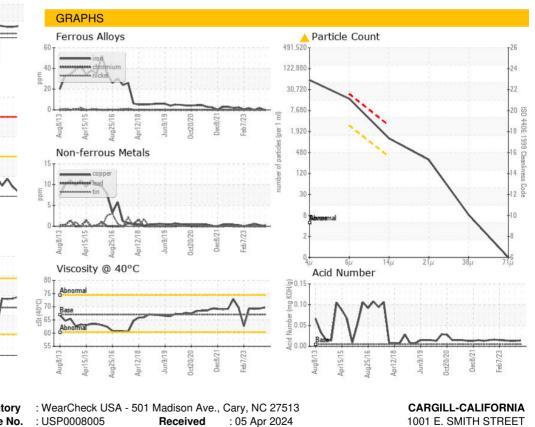


Water (KF)



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	69.7	69.3	69.2
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				a.	•	BB3 - 2, Fri fan Britter Britt

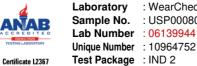
Bottom



: 08 Apr 2024

: 08 Apr 2024 - Doug Bogart





Centificate 12367 Test Package : IND 2 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)

Tested

Diagnosed

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

CALIFORNIA, MO

Contact: REFRIGERATION DEPT.

Contact/Location: REFRIGERATION DEPT. - CARCALMO

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