

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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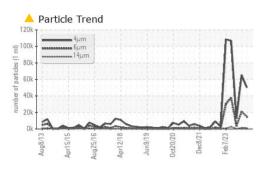
Sample Rating Trend

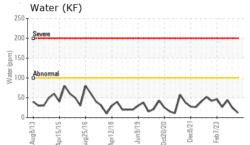
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008005	USP0005071	USP0003165
Sample Date		Client Info		04 Apr 2024	15 Jan 2024	19 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				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

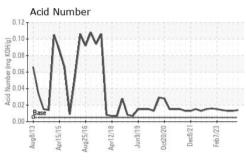
Contact/Location: REFRIGERATION DEPT. - CARCALMO

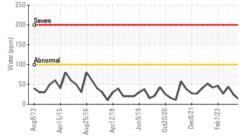


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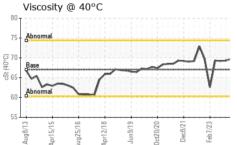






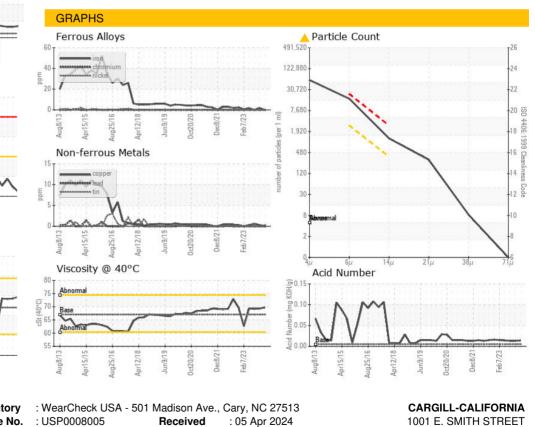


Water (KF)



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 Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britter Britt

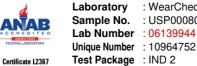
Bottom



: 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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