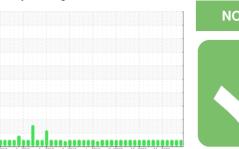


OIL ANALYSIS REPORT

Sample Rating Trend







NH3 Compressor **CARCA H-4**

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.

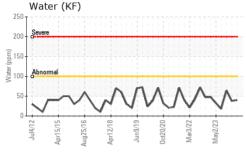
Fluid Condition

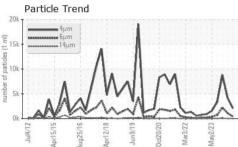
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

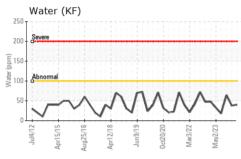
		12012 Apr20	15 Aug2016 Apr2018	Jun 2019 Oct 2020 Mar 2022 N	fay2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008008	USP0005072	USP0003169
Sample Date		Client Info		25 Mar 2024	15 Jan 2024	19 Oct 2023
Machine Age	hrs	Client Info		22431	21456	0
Oil 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	0	1	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		<1	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	2046	2088	2004
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	0.003	0.003	0.006
ppm Water	ppm	ASTM D6304	>100	40	38	64.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2061	4106	8810
Particles >6µm		ASTM D7647	>2500	415	1071	2206
Particles >14µm		ASTM D7647	>320	18	35	69
Particles >21µm		ASTM D7647	>80	6	4	11
Particles >38μm		ASTM D7647	>20	1	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	18/16/11	19/17/12	20/18/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.014

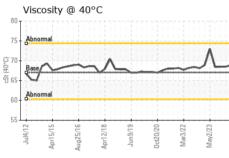


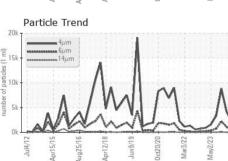
OIL ANALYSIS REPORT

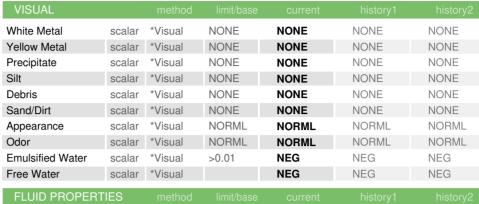








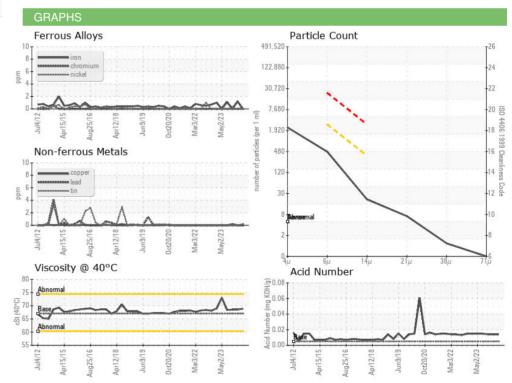




FLUID PROPERTIES		metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	67	68.9	68.5	68.5

SAMPLE IMAGES	method		history2

Color **Bottom**







Certificate 12367

Laboratory

Sample No. Lab Number

Test Package : IND 2

: USP0008008 : 06139947 Unique Number : 10964755

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Apr 2024 **Tested** : 08 Apr 2024

Diagnosed

: 08 Apr 2024 - Doug Bogart

US 65018 Contact: REFRIGERATION DEPT.

CARGILL-CALIFORNIA

1001 E. SMITH STREET

CALIFORNIA, MO

T: (573)796-7154

F: (573)796-3661

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)

Report Id: CARCALMO [WUSCAR] 06139947 (Generated: 04/08/2024 10:57:59) Rev: 1

Contact/Location: REFRIGERATION DEPT. - CARCALMO