

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Area

# Refrigeration

# 9 High Stage Compressor NCR (S/N 3215054)

Refrigeration Compressor

Fluid

**COLD STAR CS-2033-SC (150 GAL)** 

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

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	,,, (11011	Client Info	mmusacc	WC0892836	WC0892848	WC0442198
Sample Date		Client Info		16 May 2024	20 Dec 2023	30 Jul 2021
Machine Age	hrs	Client Info		39079	37441	24876
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1113	Client Info		Filtered	Filtered	N/A
Sample Status		Oliciti IIIIo		NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
	n.n.m				0	
Iron Chromium	ppm	ASTM D5185m	>8	<1		<1 0
	ppm	ASTM D5185m	>2	<1	0	
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium Silver	ppm	ASTM D5185m	>2	<1	0	0
	ppm	ASTM D5185m		1		
Aluminum	ppm	ASTM D5185m	>3	1	0	0
Lead	ppm	ASTM D5185m	>2	<1	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		12	5	5
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	0	<1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.01	0.002	0.002	0.002
ppm Water	ppm	ASTM D6304	>100	23	19	23.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	5586	3461	5230
Particles >6µm		ASTM D7647	>2500	1486	918	825
Particles >14μm		ASTM D7647	>320	32	44	32
Particles >21µm		ASTM D7647	>80	3	5	5
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/18/12	19/17/13	20/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



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Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0892836 : 06194046 Unique Number : 11056169

Received

Tested : 30 May 2024 Diagnosed

: 31 May 2024 - Don Baldridge

: 29 May 2024

Test Package : IND 2 ( Additional Tests: PrtCount ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

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Contact/Location: STEVE RIEDEL - TROBRA