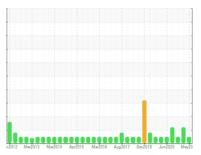


OIL ANALYSIS REPORT

Refrigeration 8 High Stage Compressor NCR (S/N 3215056)

Refrigeration Compressor

COLD STAR CS-2033-SC (150 GAL)



Sample Rating Trend



DIAGNOSIS

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.

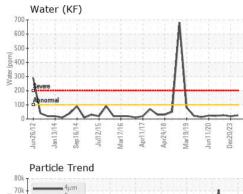
Fluid Condition

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

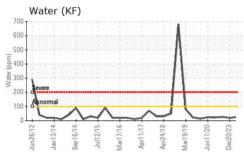
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0892835	WC0892849	WC0632336
Sample Date		Client Info		16 May 2024	20 Dec 2023	16 Dec 2021
Machine Age	hrs	Client Info		43086	42904	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Filtered	Filtered	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	0	0
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	1	0	<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	1-1-	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
		ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese Magnesium	ppm	ASTM D5185m		<1 <1	<1	0
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus		ASTM D5185m		2	3	8
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur		ASTM D5185m		0	0	0
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	<1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304		0.003	0.002	0.003
ppm Water	ppm	ASTM D6304	>100	26	19	26.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	9603	19372	5943
Particles >6µm		ASTM D7647		1901	4990	989
Particles >14μm		ASTM D7647	>320	31	161	14
Particles >21µm		ASTM D7647	>80	2	18	2
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	21/19/15	20/17/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

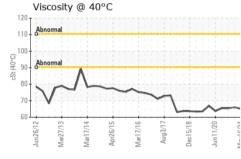


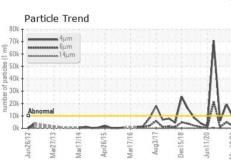
OIL ANALYSIS REPORT

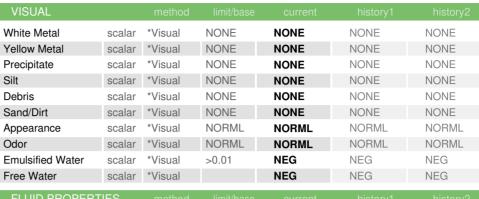


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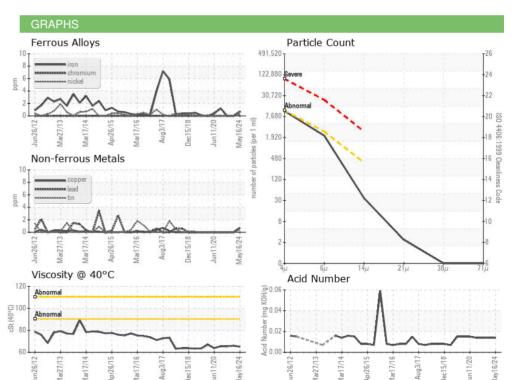


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Visc @ 40°C	cSt	ASTM D445	65.1	66.0	65.4

SAMI LE IMAGES	memou	
Color		











Laboratory Lab Number

Sample No. Unique Number : 11056171

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0892835

: 06194048

Received : 29 May 2024 Tested

: 30 May 2024 Diagnosed : 31 May 2024 - Don Baldridge

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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