

OIL ANALYSIS REPORT

Area Refrigeration #7 High - Low Stage Compressor NCR (S/N 3235022)

Refrigeration Compressor

COLD STAR CS-2033-SC (150 GAL)

Recommendation

No corrective action is recommended at this time. The filter cleaned at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

NCR (S/N 323	5022)					
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				May2024		
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0892834		
Sample Date		Client Info		16 May 2024		
Machine Age	hrs	Client Info		44397		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Filtered		
Sample Status				ATTENTION		
·			line it flere e e		Literature of	history O
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1		
Chromium	ppm	ASTM D5185m	>2	<1		
Nickel	ppm	ASTM D5185m		<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	1		
Aluminum	ppm	ASTM D5185m		1		
Lead	ppm	ASTM D5185m	>2	<1		
Copper	ppm	ASTM D5185m		1		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		4		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		0		
CONTAMINANTS						
Silicon	ppm	ASTM D5185m	>15	1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.01	0.003		
ppm Water	ppm	ASTM D6304	>100	30		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	— 17116		
Particles >6µm		ASTM D7647	>2500	2855		
Particles >14µm		ASTM D7647	>320	31		
Particles >21µm		ASTM D7647	>80	3		
Particles >38µm		ASTM D7647	>20	0		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	e 21/19/12		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.013		
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Sample Rating Trend

ISO



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NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

61.8

Particle Count

Acid Number

491.5

122,88

30.72 7 68

1,920

480

120

31

(B)

0.01

0.00

6/74 Mav1

(mg KOH)

Acid

(per 1 ml)

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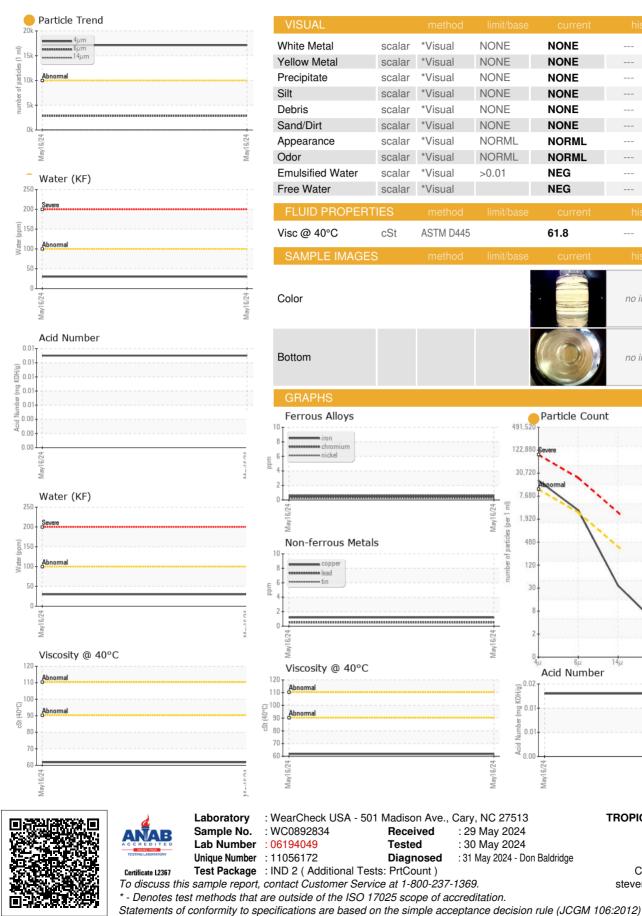
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