

OIL ANALYSIS REPORT

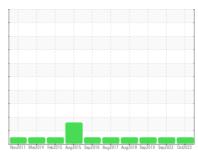
Sample Rating Trend

[SV2307050142/1]

MCQUAY CHILLER F / HARRIS DATA CENTER (S/N STNU100800074)

Refrigeration Compressor

NOT GIVEN (7 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.

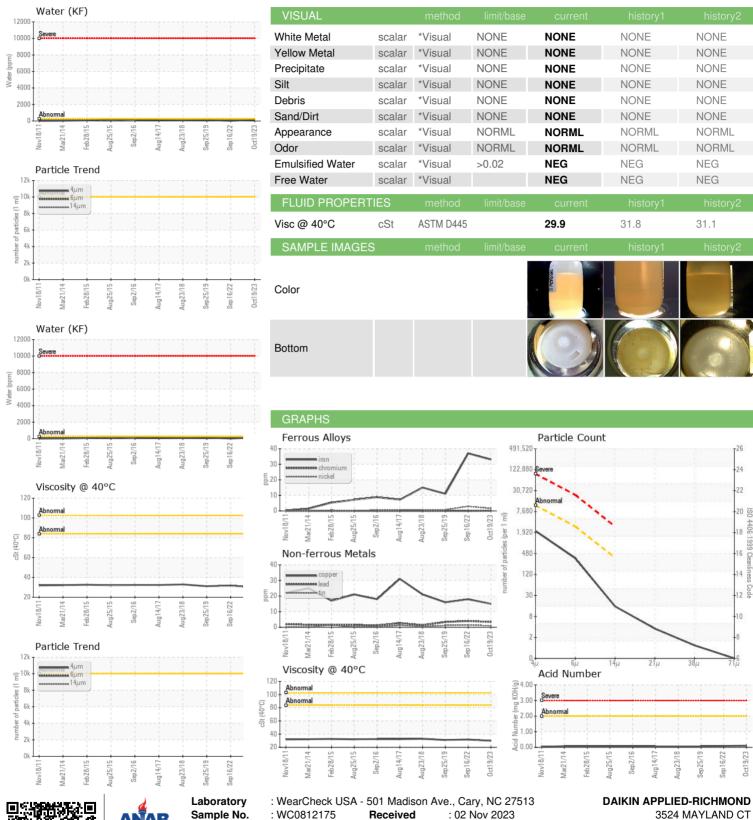
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0812175	WC0487279	WCI2310900
Sample Date		Client Info		19 Oct 2023	16 Sep 2022	25 Sep 2019
Machine Age	hrs	Client Info		0	20270	14210
Oil Age	hrs	Client Info		0	20270	14210
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	33	37	11
Chromium	ppm	ASTM D5185m		<1	0	0
Nickel	ppm	ASTM D5185m	72	2	3	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>50	<1	1	1
Lead	ppm	ASTM D5185m	>2	3	4	3
Copper	ppm	ASTM D5185m	>100	15	18	16
Tin		ASTM D5185m	>4	1	1	1
	ppm	ASTM D5185m	>4			2
Antimony Vanadium	ppm	ASTM D5185m		0	<1	0
	ppm	ASTM D5185m		<1		0
Cadmium	ppm	MSTIM DST85III		<1	0	U
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		<1	0	0
Phosphorus	ppm	ASTM D5185m		0	12	1
Zinc	ppm	ASTM D5185m		33	42	18
Sulfur	ppm	ASTM D5185m		0	93	7
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	10	10	8
Sodium	ppm	ASTM D5185m		0	1	2
Potassium	ppm	ASTM D5185m	>20	5	4	0
Water	%	ASTM D6304	>0.02	0.013	0.003	0.011
ppm Water	ppm	ASTM D6304	>250	133.6	27.8	116.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1861		
Particles >6µm		ASTM D7647	>2500	309		
Particles >14μm		ASTM D7647	>320	13		
Particles >21μm		ASTM D7647	>80	3		
Particles >38μm		ASTM D7647	>20	1		
Particles >71μm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/15/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.106	0.092	0.058



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Sample No. Lab Number **Unique Number**

: WC0812175

: 05996796 : 10725156

Diagnosed : 04 Nov 2023 Diagnostician : Don Baldridge

Test Package : IND 2 (Additional Tests: PrtCount) Certificate L2367 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) 3524 MAYLAND CT RICHMOND, VA US 23233

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