

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area | SV2307050142/1]

MCQUAY CHILLER A / HARRIS DATA CENTER (S/N STNU100800030)

Component

Refrigeration Compressor

NOT GIVEN (7 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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.

Nov2011 Feb2015 Aug2015 Aug2016 Aug2017 Aug2018 Sep2019 Sep2022 Oct0023						
SAMPLE INFORM	MOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0812168	WC0487282	WCI2310897
Sample Date		Client Info		16 Oct 2023	16 Sep 2022	24 Sep 2019
Machine Age	hrs	Client Info		0	13030	2960
Oil Age	hrs	Client Info		0	13030	2960
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	12	13	4
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	1	<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	0	0	1
Copper	ppm	ASTM D5185m	>100	21	25	24
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		<1	0	0
Phosphorus	ppm	ASTM D5185m		180	11	<1
Zinc	ppm	ASTM D5185m		30	41	22
Sulfur	ppm	ASTM D5185m		0	103	14
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	12	10
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	5	6	4
Water	%	ASTM D6304	>0.02	0.013	0.003	0.011
ppm Water	ppm	ASTM D6304	>250	130.4	37.7	119.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1663		
Particles >6µm		ASTM D7647	>2500	252		
Particles >14µm		ASTM D7647	>320	15		
Particles >21µm		ASTM D7647	>80	5		
Particles >38µm		ASTM D7647	>20	0		
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

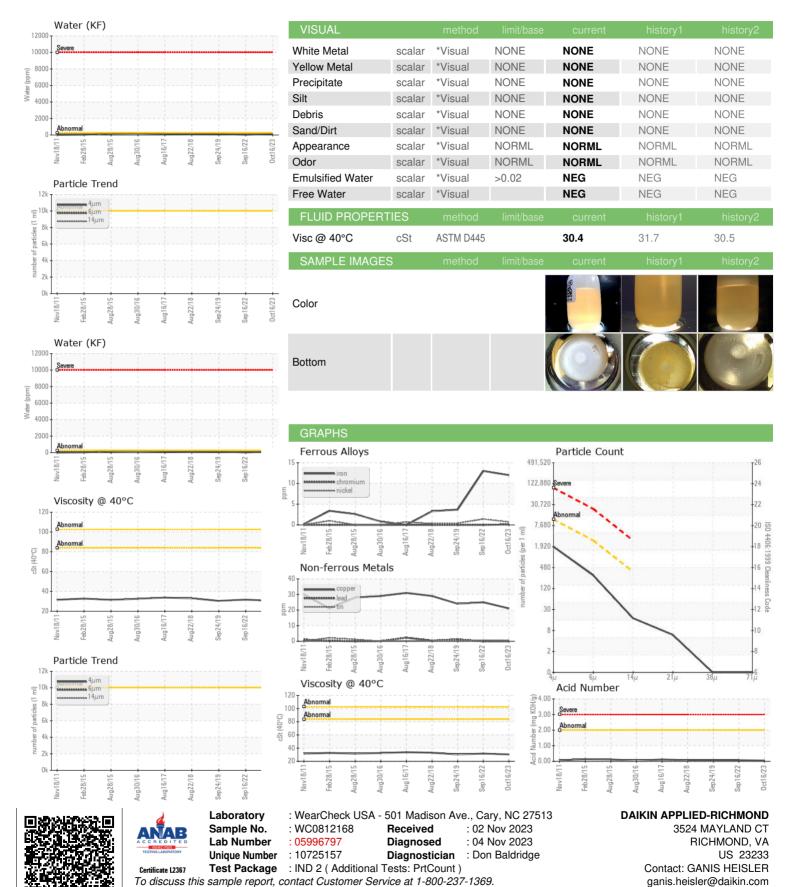
9 0.

0.074

Contact/Location: GANIS HEISLER - MCQRIC



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* - 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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