

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id MCQUAY NORTHROP GRUMMAN CRMF CHILLER 21 (S/N STNU051100121)

Refrigeration Compressor

EMKARATE RL 32H (10 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 component.

Fluid Condition

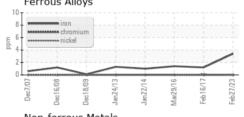
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

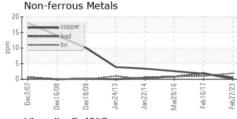
Dec2007 Dec2008 Dec2009 Jan2013 Jan2014 Mar2016 Feb2017 Feb2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0384572	WCI2260055	WCI2261832
Sample Date		Client Info		27 Feb 2023	16 Feb 2017	29 Mar 2016
Machine Age	hrs	Client Info		27240	4680	510
Oil Age	hrs	Client Info		0	4680	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	3	1	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>50	5	1	2
Lead	ppm	ASTM D5185m	>10	0	2	<1
Copper	ppm	ASTM D5185m	>100	<1	2	3
Tin	ppm	ASTM D5185m	>10	2	1	<1
Antimony	ppm	ASTM D5185m			0	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	5	5	<1	0
Zinc	ppm	ASTM D5185m	10	2	1	2
Sulfur	ppm	ASTM D5185m	50	48	29	29
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	6	12
Sodium	ppm	ASTM D5185m		2	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.02	0.004	0.005	△ 0.025
ppm Water	ppm	ASTM D6304	>250	42.4	50	<u>▲</u> 250
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	.05	0.057	0.075	0.055

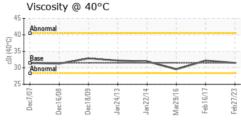


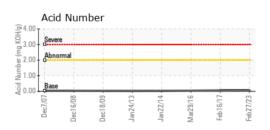
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Laboratory Sample No. Lab Number **Unique Number**

: WC0384572 : 05780178 : 10359848 : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2023 : 02 Mar 2023 Diagnosed Diagnostician

: Don Baldridge

DAIKIN APPLIED 5021 HOWERTON WAY SUITE P BOWIE, MD

US 20715 Contact: ANDREW TURLINGTON

andrew.turlington@daikinapplied.com T: (301)735-1440

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (301)735-1838

Test Package 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.

Report Id: MCQUPP [WUSCAR] 05780178 (Generated: 07/21/2023 09:25:16) Rev: 1

Contact/Location: ANDREW TURLINGTON - MCQUPP