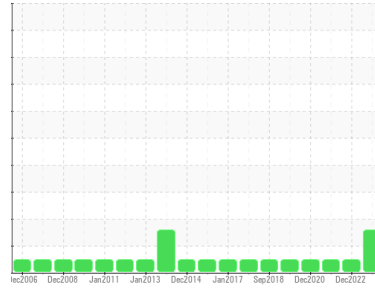




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
MCQUAY 1800 MASS-1 (S/N STNU050300002-1)

Component
Refrigeration Compressor
Fluid
ICI EMKARATE RL 46H (8 GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a trace of moisture present in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0798466	WC0603648	WCI2308515
Sample Date	Client Info		05 Dec 2023	13 Dec 2022	02 Dec 2021
Machine Age	hrs	Client Info	21320	20650	19790
Oil Age	hrs	Client Info	0	0	19790
Oil Changed	Client Info		N/A	Not Changd	Not Changd
Sample Status			MARGINAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	15	15	24
Chromium	ppm	ASTM D5185m >2	0	0	0
Nickel	ppm	ASTM D5185m	<1	0	1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >50	1	1	<1
Lead	ppm	ASTM D5185m >2	<1	<1	<1
Copper	ppm	ASTM D5185m >100	6	5	11
Tin	ppm	ASTM D5185m >4	1	1	1
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	3
Barium	ppm	ASTM D5185m 0	<1	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	<1
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 0	2	0	0
Calcium	ppm	ASTM D5185m 0	1	0	0
Phosphorus	ppm	ASTM D5185m 1900	483	412	10
Zinc	ppm	ASTM D5185m 0	41	33	28
Sulfur	ppm	ASTM D5185m 25	29	44	0

CONTAMINANTS

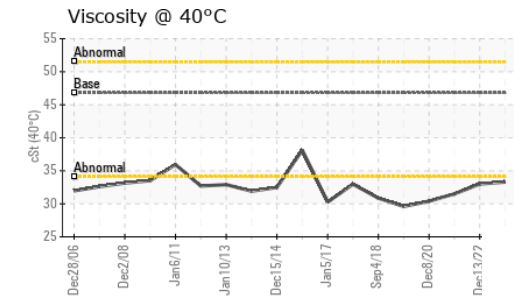
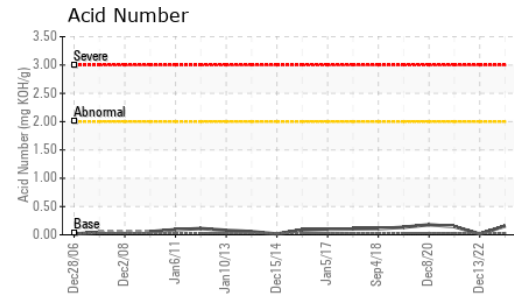
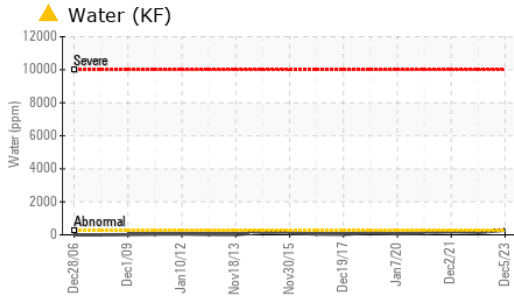
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	12	14	17
Sodium	ppm	ASTM D5185m	3	3	2
Potassium	ppm	ASTM D5185m >20	8	3	3
Water	%	ASTM D6304 >0.02	▲ 0.028	0.013	0.018
ppm Water	ppm	ASTM D6304 >250	▲ 284	136.5	187.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.03	0.155	0.015	0.145



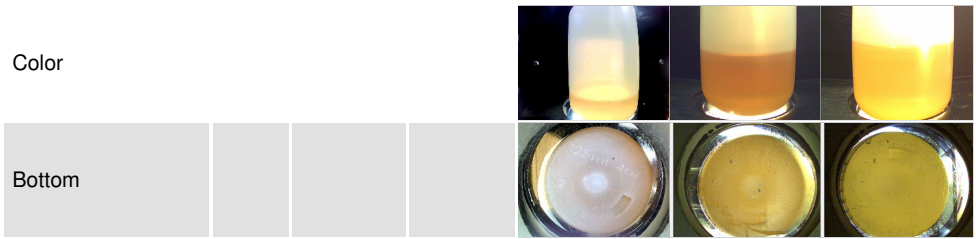
OIL ANALYSIS REPORT



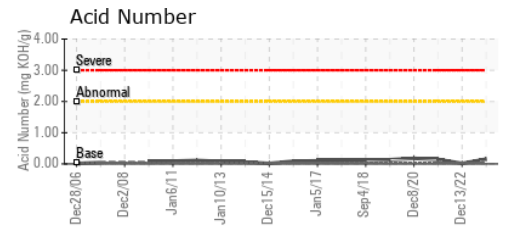
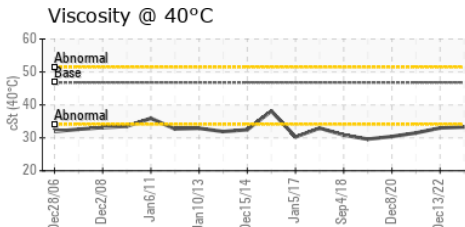
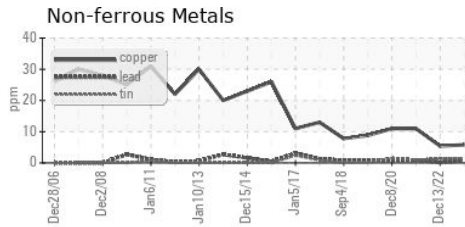
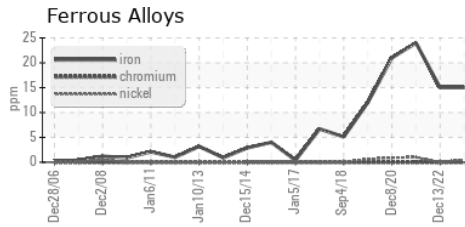
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.02	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.8	33.3	33.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0798466
 Lab Number : 06056770
 Unique Number : 10822719
 Test Package : IND 2

Received : 10 Jan 2024
 Diagnosed : 11 Jan 2024
 Diagnostician : Don Baldrige

DAIKIN APPLIED
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 BOWIE, MD
 US 20715
 Contact: ANDREW TURLINGTON
 andrew.turlington@daikinapplied.com
 T: (301)735-1440
 F: (301)735-1838

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)