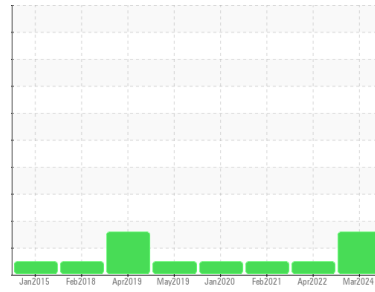




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**MCQUAY RICHMOND AIRPORT CH 2 (S/N STNU050800086)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**MOBIL EAL 46 (8 GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a light concentration of water 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		<b>WC0487316</b>	WC0487294	WC0487351
Sample Date	Client Info		<b>22 Mar 2024</b>	05 Apr 2022	22 Feb 2021
Machine Age	hrs	Client Info	<b>0</b>	0	2799
Oil Age	hrs	Client Info	<b>0</b>	0	2799
Oil Changed	Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status			<b>MARGINAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>21</b>	23	19
Chromium	ppm	ASTM D5185m >2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >50	<b>5</b>	4	2
Lead	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >100	<b>6</b>	11	12
Tin	ppm	ASTM D5185m >4	<b>2</b>	2	2
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	4	4
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m 0	<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185m 0	<b>3</b>	0	0
Phosphorus	ppm	ASTM D5185m 450	<b>127</b>	10	7
Zinc	ppm	ASTM D5185m 5	<b>20</b>	15	8
Sulfur	ppm	ASTM D5185m 40	<b>45</b>	6	35

## CONTAMINANTS

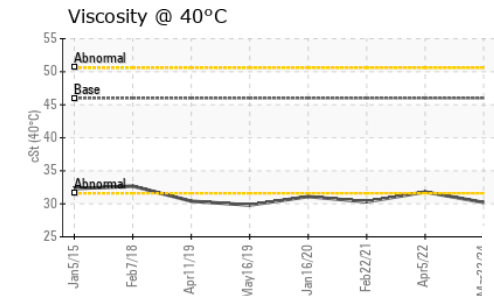
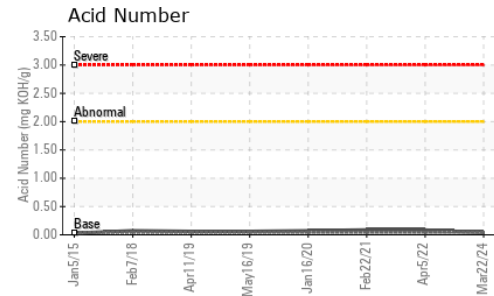
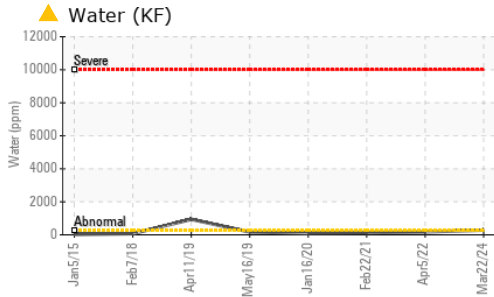
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>9</b>	7	6
Sodium	ppm	ASTM D5185m	<b>2</b>	2	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	3
Water	%	ASTM D6304 >0.02	<b>▲ 0.028</b>	0.017	0.012
ppm Water	ppm	ASTM D6304 >250	<b>▲ 286</b>	173.4	127.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.04	<b>0.042</b>	0.085	0.088



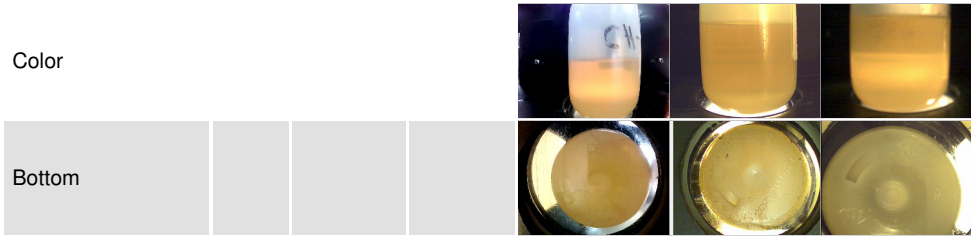
# OIL ANALYSIS REPORT



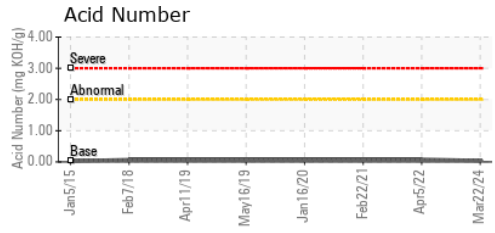
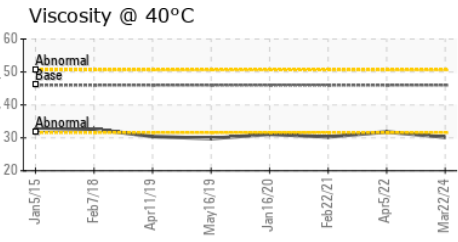
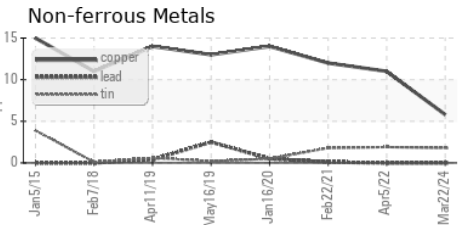
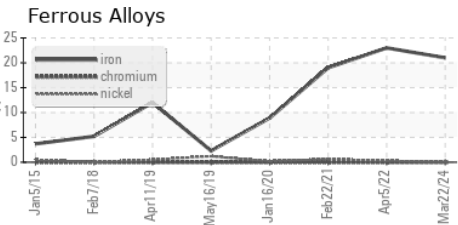
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	30.2	31.8	30.3

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0487316      **Received** : 12 Apr 2024  
**Lab Number** : 06147409      **Tested** : 15 Apr 2024  
**Unique Number** : 10977487      **Diagnosed** : 16 Apr 2024 - Don Baldrige  
**Test Package** : IND 2

**DAIKIN APPLIED-RICHMOND**  
 8991 OLD STAPLES MILL ROAD  
 HENRICO, VA 23228  
 Contact: AMANDA CARRIER  
 amanda.carrier@daikinapplied.com  
 T: (804)747-4822  
 F: (804)747-6686

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)