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Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				MARGINAL	MARGINAL	NORMAL	
Copper	ppm	ASTM D5185(m)	>100	<u> </u>	<u> </u>	12.0	

Customer Id: GTT0000352 Sample No.: GTT0000030 Lab Number: 02578771 Test Package: IND 2



To manage this report scan the QR code

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RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

06 Sep 2022 Diag: Wes Davis



The elevated copper reading indicates the effects of oil migration through the evaporator (oil loss from the compressor) possibly occurring during intervals of operation at low cooling load conditions. All other readings are in normal ranges.

23 Sep 2020 Diag: Wes Davis



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The test results indicate normal wear patterns for this type of unit with moisture and acidity in the acceptable range. The elevated moisture is associated with synthetic oils.

22 Oct 2019 Diag: Wes Davis

NORMAL



The test results indicate normal wear patterns for this type of unit with the moisture and acidity also in the acceptable range.





view report





OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

MOBIL EAL ARTIC ISO 46 (--- GAL)

Area TCP Ch#1 [2304251382] MCQUAY STNU060300231

DIAGNOSIS

Component Chiller

A Recommendation

Resample at the next service interval to monitor.

🔺 Wear

Copper ppm levels are marginal. The elevated copper reading indicates the effects of oil migration through the evaporator (oil loss from the compressor) possibly occurring during intervals of operation at low cooling load conditions. All other readings are in normal ranges.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GTT0000030	GTT72757	GTT72758
Sample Date		Client Info		28 Jul 2023	06 Sep 2022	23 Sep 2020
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	MARGINAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>100	7.1	4.6	3.0
Chromium	ppm	ASTM D5185(m)	>2	0.0	0.1	0.1
Nickel	ppm	ASTM D5185(m)		0.9		
Titanium	ppm	ASTM D5185(m)		0.0		
Silver	ppm	ASTM D5185(m)	>2	0.0		
Aluminum	ppm	ASTM D5185(m)	>50	1.4	0.1	0.1
Lead	ppm	ASTM D5185(m)	>2	1.0	0.1	0.1
Copper	ppm	ASTM D5185(m)	>100	<u> </u>	<u> </u>	12.0
Tin	ppm	ASTM D5185(m)	>4	1.2	0.1	0.1
Antimony	ppm	ASTM D5185(m)		0.0		
Vanadium	ppm	ASTM D5185(m)		0.0		
Beryllium	ppm	ASTM D5185(m)		0.0		
Cadmium	ppm	ASTM D5185(m)		0.0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0.8		
Barium	ppm	ASTM D5185(m)		0.0		
Molybdenum	ppm	ASTM D5185(m)		0.0		
Manganese	ppm	ASTM D5185(m)		0.5		
Magnesium	ppm	ASTM D5185(m)		0.0		
Calcium	ppm	ASTM D5185(m)		0.4		
Phosphorus	ppm	ASTM D5185(m)		8.9		
Zinc	ppm	ASTM D5185(m)		27	13.1	12.9
Sulfur	ppm	ASTM D5185(m)		51		
Lithium	ppm	ASTM D5185(m)		0.3		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	5.6		
Sodium	ppm	ASTM D5185(m)		1.5		
Potassium	ppm	ASTM D5185(m)	>20	1.0		
Water	%	ASTM D6304*	>0.01	0.061		
ppm Water	ppm	ASTM D6304*	>100	613.1	69	124
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.1	0.08	0.071	0.060



OIL ANALYSIS REPORT

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	FREON		
Emulsified Water	scalar	Visual*	>0.01	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	49.2	38.2		
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



Contact/Location: Service Manager - GTT0000352