

OIL ANALYSIS REPORT

Sample Rating Trend

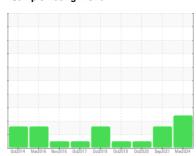
WEAR



Area [819475] MCQUAY STNU110500049

Chiller

MOBIL EAL ARTIC ISO 46 (--- GAL)





DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition.

Wear

Iron ppm levels are abnormal. Oil pump wear is indicated. Lead and copper ppm levels are noted. The elevated copper reading suggests the effects of oil migration through the evaporator (oil loss from the compressor) possibly occurring during intervals of operation at low cooling load conditions.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GTT0002111	GTT74896	GTT74897
Sample Date		Client Info		07 Mar 2024	30 Sep 2021	07 Oct 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				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<u> </u>	<u> </u>	19
Chromium	ppm	ASTM D5185(m)	>2	0	<1	<1
Nickel	ppm	ASTM D5185(m)		1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>50	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>2	3	<1	<1
Copper	ppm	ASTM D5185(m)	>100	3 0	<u>18</u>	45
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	0	<1		
Magnesium	ppm	ASTM D5185(m)	0	<1		
Calcium	ppm	ASTM D5185(m)	0	<1		
Phosphorus	ppm	ASTM D5185(m)	250	2		
Zinc	ppm	ASTM D5185(m)	0	24	14	31
Sulfur	ppm	ASTM D5185(m)	30	64		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	24		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	6		
ppm Water	ppm	ASTM D6304*	>400	172	110	80
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



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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	NORML		
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	49.2	18.5		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
					no image	no image
Bottom					no image	no image



 Sample No.
 : GTT0002111
 Received
 : 08 Mar 2024

 Lab Number
 : 02620980
 Tested
 : 11 Mar 2024

 Unique Number
 : 5746099
 Disapposed
 : 11 Mar 2024

Unique Number : 5746099 Diagnosed : 11 Mar 2024 - Bill Quesnel

Test Package : IND 2 (Additional Tests: KV40)
To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Damages: Seller shall in no event be liable for special, incidental, or consequential damages, of a commercial nature, resulting from any cause.

Report Id: GTT0000006 [WCAMIS] 02620980 (Generated: 03/11/2024 18:56:08) Rev: 1

Ainsworth Electric

Toronto, ON

CA M4A 1X4

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T: (905)694-6302

131 Bermondsey Road

Contact: Service Manager

invoices@ainsworth.com