

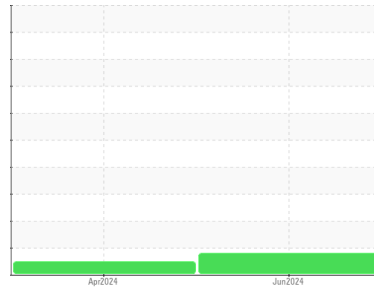


OIL ANALYSIS REPORT



Area
Palace Pier [GTT224-448 860409]
 Machine Id
CARRIER 4802Q67601
 Component
Chiller
 Fluid
COMP OIL (POE) ISO 68 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

The operation of this unit should be reviewed closely by a service engineer. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Tin ppm levels are abnormal. The tin reading shows moderate wear occurring on the compressor bearings or motor bearings.

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GTT0002857	GTT0002130	---
Sample Date	Client Info		12 Jun 2024	24 Apr 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>8	1	<1	---
Chromium	ppm	ASTM D5185(m)	>2	0	0	---
Nickel	ppm	ASTM D5185(m)		<1	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>3	0	0	---
Lead	ppm	ASTM D5185(m)	>2	0	0	---
Copper	ppm	ASTM D5185(m)	>8	2	2	---
Tin	ppm	ASTM D5185(m)	>4	▲ 4	2	---
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)	5	<1	<1	---
Barium	ppm	ASTM D5185(m)	5	0	0	---
Molybdenum	ppm	ASTM D5185(m)	5	0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)	5	<1	0	---
Calcium	ppm	ASTM D5185(m)	5	<1	0	---
Phosphorus	ppm	ASTM D5185(m)	400	417	423	---
Zinc	ppm	ASTM D5185(m)	5	6	6	---
Sulfur	ppm	ASTM D5185(m)	100	23	17	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	3	3	---
Sodium	ppm	ASTM D5185(m)		<1	<1	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
ppm Water	ppm	ASTM D6304*	>100	268	251	---


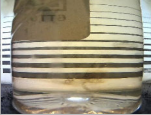


FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	0.03	0.04	---

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	VLITE ---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE ---
Appearance	scalar	Visual*	NORML	NORML	NORML ---
Odor	scalar	Visual*	NORML	NORML	NORML ---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	67.4	63.1 ---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					 no image
Bottom					 no image

GRAPHS



Sample No. : GTT0002857
Lab Number : 02642206
Unique Number : 5799745
Test Package : IND 2 (Additional Tests: KV40)
Received : 14 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 Jun 2024 - Bill Quesnel

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.

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