

### **OIL ANALYSIS REPORT**

# Sample Rating Trend

#### WEAR





# Mun Anney Ch #3 [GTT224-338] Machine Id CARRIER 2199559589(3)

**CONTAMINANTS** 

**FLUID DEGRADATION** 

Silicon

Sodium

Potassium

ppm Water

Acid Number (AN)

method

ASTM D5185(m)

ASTM D5185(m)

ASTM D5185(m)

method

mg KOH/g ASTM D974\* 0.10

ASTM D6304\* >100

ppm

ppm

ppm

ppm

limit/base

>15

>20

current

current

11

<1

<1

9

0.14

Chiller

REFRIG COMP OIL ISO 68 (--- GAL)

#### 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. Iron ppm levels are noted. 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.

68 ( GAL)				Feb 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GTT0002251		
Sample Date		Client Info		05 Feb 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>8	<b>1</b> 1		
Chromium	ppm	ASTM D5185(m)	>2	0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>3	<1		
Lead	ppm	ASTM D5185(m)	>2	0		
Copper	ppm	ASTM D5185(m)	>8	<1		
Tin	ppm	ASTM D5185(m)	>4	<u> </u>		
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)	5	0		
Barium	ppm	ASTM D5185(m)	5	0		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	5	<1		
Calcium	ppm	ASTM D5185(m)	12	0		
Phosphorus	ppm	ASTM D5185(m)	12	484		
Zinc	ppm	ASTM D5185(m)	12	18		
0.16	nnm	ASTM D5185(m)	1000	4		
Sulfur	ppm	A01101 D0100(111)	1000	-		

history1

history2



## **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	NORML		
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	63.0		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



Sample No. : GTT0002251 Received : 22 Mar 2024 Lab Number : 02624092 Tested : 25 Mar 2024

Unique Number : 5749211 Diagnosed : 26 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.

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