

# **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Area **50 Inverlocky Circ A [5294]** Machine Id **CARRIER 2102Q01577(A)** Component





WATER

### COMP OIL (POE) ISO 220 (--- GAL)

### DIAGNOSIS

#### Recommendation

If not recently done change any filter driers to reduce moisture level. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

#### 🔺 Wear

Iron ppm levels are noted. The increased iron reading indicate possible wear occurring on the rotor main bearings, the rotor thrust bearings, the rotors or the slide valve assembly.

#### Contamination

The elevated moisture content is associated with POE oils which are hygroscopic, and can absorb moisture from sampling and processing.

#### **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		GTT0001491		
Sample Date		Client Info		02 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	<b>4</b> 9		
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	1		
Copper	ppm	ASTM D5185(m)	>8	5		
Tin	ppm	ASTM D5185(m)	>4	0		
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	0		
Calcium	ppm	ASTM D5185(m)	5	<1		
Phosphorus	ppm	ASTM D5185(m)	400	13		
Zinc	ppm	ASTM D5185(m)	5	6		
Sulfur	ppm	ASTM D5185(m)	100	29		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	22		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
ppm Water	ppm	ASTM D6304*	>100	<b>3</b> 44		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	0.03		



## **OIL ANALYSIS REPORT**

VISUAL		method	limit/base	current	history1	history2		
White Metal	scalar	Visual*	NONE	VLITE				
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	LIGHT				
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)	220	147				
SAMPLE IMAGES		method	limit/base	current	history1	history2		
Color					no image	no image		
Bottom					no image	no image		
GRAPHS								



 Lab Number
 : 02610084
 Diagnosed
 : 24 Jan 2024

 Unique Number
 : 5711170
 Diagnostician
 : Bill Quesnel

 Test Package
 : IND 2 (Additional Tests: KV40)
 : 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.

: 19 Jan 2024

Recieved

Complete Chiller Solutions 8-4444 Eastgate Parkway Mississauga, ON CA L4W 4T6 Contact: Service Manager ap@complete-cs.ca T: (905)629-8585 F:

Sample No.

: GTT0001491