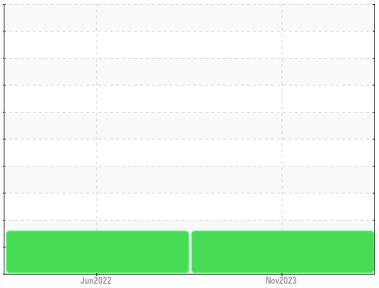
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
Pratt et Whithney Ch#3 Circ A [0068797-H00654]
Machine Id
CARRIER 2819Q26059(3,A)
Component
Chiller
Fluid
REFRIGERATION OIL (POE) (--- GAL)

DIAGNOSIS

Recommendation
If not recently done change any filter driers to reduce moisture level. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear
All component wear rates are normal.

Contamination
Moisture is above typical range for this type of compressor.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GTT0001314**	GTT9856	---
Sample Date		Client Info		**03 Nov 2023**	30 Jun 2022	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**MARGINAL**	MARGINAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	**1**	<1	---
Chromium	ppm	ASTM D5185(m)	>2	**0**	<1	---
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**	<1	---
Lead	ppm	ASTM D5185(m)	>2	**5**	<1	---
Copper	ppm	ASTM D5185(m)	>8	**<1**	<1	---
Tin	ppm	ASTM D5185(m)	>4	**0**	<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	**<1**	---	---
Barium	ppm	ASTM D5185(m)	0	**0**	---	---
Molybdenum	ppm	ASTM D5185(m)	0	**0**	---	---
Manganese	ppm	ASTM D5185(m)	0	**0**	---	---
Magnesium	ppm	ASTM D5185(m)	0	**<1**	---	---
Calcium	ppm	ASTM D5185(m)	10	**0**	---	---
Phosphorus	ppm	ASTM D5185(m)	250	**51**	---	---
Zinc	ppm	ASTM D5185(m)	0	**1**	1	---
Sulfur	ppm	ASTM D5185(m)	400	**66**	---	---
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)		**0**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**5**	---	---
ppm Water	ppm	ASTM D6304*	>200	▲ **702**	▲ 522	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.07	**0.07**	0.045	---

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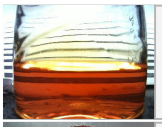
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		**158**	---	---

SAMPLE IMAGES				current	history1	history2
Color					*no image*	*no image*
Bottom					*no image*	*no image*

GRAPHS

Sample No. : GTT0001314
Lab Number : 02606388
Unique Number : 5707474
Test Package : IND 2 (Additional Tests: KV40)

Recieved : 03 Jan 2024
Diagnosed : 12 Jan 2024
Diagnostician : 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.

Baulne Inc
1850 32nd Avenue
Montreal, QC
CA H8T 3J7
Contact: Paula Carvalho
pcarvalho@baulne.ca
T: (514)422-0444
F: