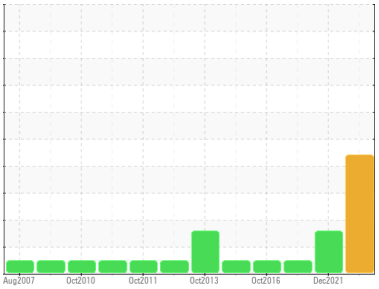
OIL ANALYSIS REPORT

Area
Miramichi Lodge #1 Circ B
Machine Id
CARRIER 1805F13649(B1)
Component
Chiller
Fluid
CASTROL AIRCOL SW 220 (--- GAL)

Sample Rating Trend



WATER

DIAGNOSIS

Recommendation
If not recently done change any filter driers to reduce moisture level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear
Copper, lead and iron ppm levels are marginal. All other component wear rates are normal. The high metal levels indicate corrosion in the system.

Contamination
The elevated moisture content is associated with POE oils which are hygroscopic, and can absorb moisture from sampling and processing. There is visible rust/corrosion particles visible in the oil sample.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GTT0001342**	GTT7064	GTT7065
Sample Date		Client Info		**04 Aug 2023**	07 Dec 2021	01 Dec 2017
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ATTENTION**	ATTENTION	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	▲ **7**	3	2
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)	>3	**1**	<1	<1
Lead	ppm	ASTM D5185(m)	>2	▲ **5**	<1	<1
Copper	ppm	ASTM D5185(m)	>8	▲ **6**	1	<1
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	**<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)	0	**<1**	---	---
Phosphorus	ppm	ASTM D5185(m)	30	**8**	---	---
Zinc	ppm	ASTM D5185(m)	0	▲ **19**	8	8
Sulfur	ppm	ASTM D5185(m)	30	**0**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**12**	---	---
Sodium	ppm	ASTM D5185(m)		**<1**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**0**	---	---
ppm Water	ppm	ASTM D6304*	>200	▲ **357**	▲ 376	24

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.03	**0.09**	0.041	0.101

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)	220	**134**	---	---

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

GRAPHS

Sample No. : GTT0001342
Lab Number : 02605618
Unique Number : 5698703
Test Package : IND 2 (Additional Tests: KV40)

Recieved : 28 Dec 2023
Diagnosed : 05 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.

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