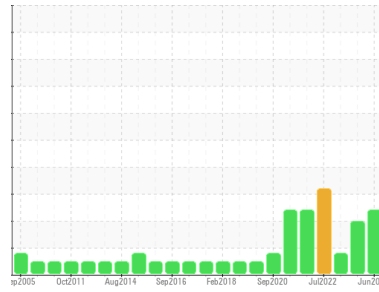


OIL ANALYSIS REPORT



Area
3500 Steeles ME2 [GTT224-482 111PBBLWE]
 Machine Id
YORK SBNM228120
 Component
Chiller
 Fluid
YORK TYPE C (--- GAL)

Sample Rating Trend



WATER



DIAGNOSIS

▲ Recommendation

If not recently done change any filter driers to reduce moisture level. We recommend an early resample to monitor this condition.

▲ Wear

Copper ppm levels are abnormal. The elevated copper reading suggests the effects of oil migration through the evaporator (oil loss from the compressor) possibly occurring during intervals of operation at low cooling load conditions.

● Contamination

There is a light concentration of water present 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		GTT	GTT0001300	GTT61644
Sample Date	Client Info		26 Jun 2024	12 Dec 2023	04 Apr 2023
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >8	2	3	2
Chromium	ppm	ASTM D5185(m) >2	0	0	<1
Nickel	ppm	ASTM D5185(m)	<1	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m) >2	0	0	---
Aluminum	ppm	ASTM D5185(m) >3	<1	1	<1
Lead	ppm	ASTM D5185(m) >2	0	<1	<1
Copper	ppm	ASTM D5185(m) >8	▲ 12	▲ 43	▲ 12
Tin	ppm	ASTM D5185(m) >4	0	0	<1
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) 0	<1	<1	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 0	0	0	---
Manganese	ppm	ASTM D5185(m) 0	0	0	---
Magnesium	ppm	ASTM D5185(m) 0	0	0	---
Calcium	ppm	ASTM D5185(m) 0	0	0	---
Phosphorus	ppm	ASTM D5185(m) 0	<1	0	---
Zinc	ppm	ASTM D5185(m) 0	<1	1	<1
Sulfur	ppm	ASTM D5185(m) 200	128	259	---
Lithium	ppm	ASTM D5185(m)	<1	1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<1	1	---
Sodium	ppm	ASTM D5185(m)	0	0	---
Potassium	ppm	ASTM D5185(m) >20	0	<1	---
ppm Water	ppm	ASTM D6304* >50	● 151	38	35





FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.11	0.05	▲ 0.10	0.031

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	VLITE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	---
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)	63.8	32.2	33.6	---

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

GRAPHS



Sample No. : GTT
Lab Number : 02647466
Unique Number : 5813018
Test Package : IND 2 (Additional Tests: KF, TAN Man)
Received : 11 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 16 Jul 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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 US 532012012
 Contact: Service Manager

T:
F: