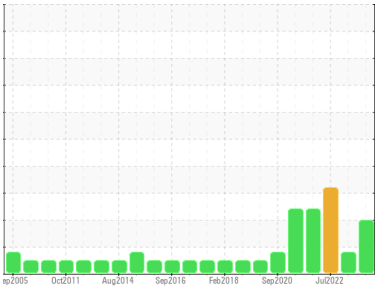
OIL ANALYSIS REPORT

Area
3500 Steeles ME2 [1-1OF1M0AZ]
Machine Id
YORK SBNM228120
Component
Chiller
Fluid
YORK TYPE C (--- GAL)

Sample Rating Trend



DEGRADATION

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.

Contamination
The water content is negligible. There is no indication of any contamination in the oil.

▲ Fluid Condition
The AN level is above the recommended limit. NOTE: The color of the oil is darker then previous samples.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GTT0001300**	GTT61644	GTT61645
Sample Date		Client Info		**12 Dec 2023**	04 Apr 2023	11 Jul 2022
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**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	**3**	2	4
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	▲ 3
Lead	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>8	▲ **43**	▲ 12	▲ 26
Tin	ppm	ASTM D5185(m)	>4	**0**	<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	**0**	---	---
Calcium	ppm	ASTM D5185(m)	0	**0**	---	---
Phosphorus	ppm	ASTM D5185(m)	0	**0**	---	---
Zinc	ppm	ASTM D5185(m)	0	**1**	<1	<1
Sulfur	ppm	ASTM D5185(m)	200	**259**	---	---
Lithium	ppm	ASTM D5185(m)		**1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**1**	---	---
Sodium	ppm	ASTM D5185(m)		**0**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
ppm Water	ppm	ASTM D6304*	>50	**38**	35	▲ 56

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.11	▲ **0.10**	0.031	0.035

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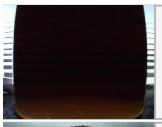
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**VLITE**	---	---
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)	63.8	**33.6**	---	---

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

GRAPHS

Sample No. : GTT0001300
Lab Number : 02605693
Unique Number : 5698778
Test Package : IND 2 (Additional Tests: KV40)

Recieved : 28 Dec 2023
Diagnosed : 09 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.

Johnson Controls - Markham
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Milwaukee, WI
US 532012012
Contact: Service Manager

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