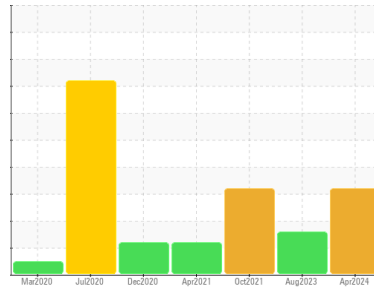




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
7038882 (S/N 1016)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil.

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			KCPA016411	KC05940225	KC98802
Sample Date	Client Info			22 Apr 2024	28 Aug 2023	14 Oct 2021
Machine Age	hrs	Client Info		27265	23560	13407
Oil Age	hrs	Client Info		4000	0	4913
Oil Changed	Client Info			Not Chngd	N/A	Not Chngd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	3	8
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0

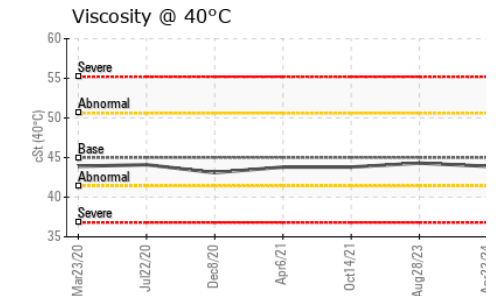
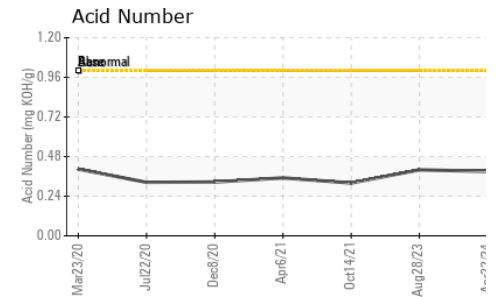
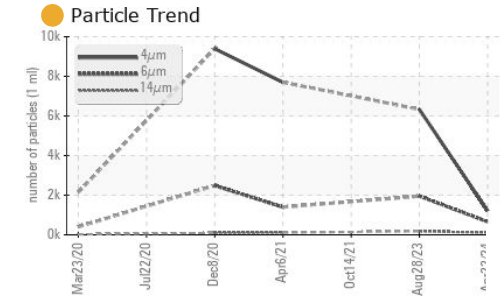
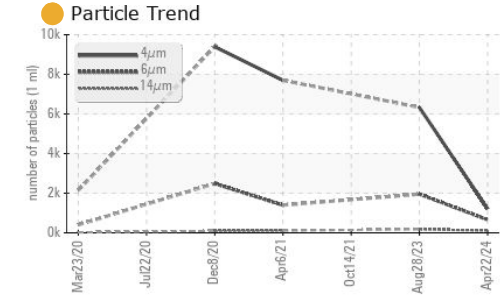
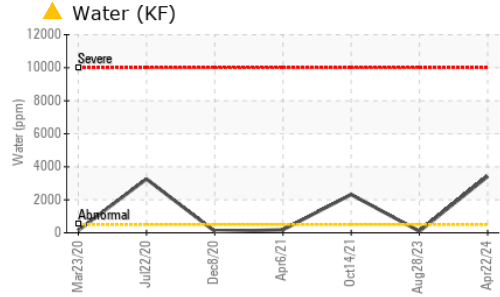
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	33	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	63	4	2
Calcium	ppm	ASTM D5185m	0	3	0	0
Phosphorus	ppm	ASTM D5185m	0	2	2	4
Zinc	ppm	ASTM D5185m	0	7	0	0
Sulfur	ppm	ASTM D5185m	23500	22881	13247	13829

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		9	<1	2
Potassium	ppm	ASTM D5185m	>20	9	1	0
Water	%	ASTM D6304	>0.05	▲ 0.341	0.009	▲ 0.232
ppm Water	ppm	ASTM D6304	>500	▲ 3410	91.1	▲ 2320

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1209	6329	---
Particles >6µm		ASTM D7647	>1300	659	▲ 1953	---
Particles >14µm		ASTM D7647	>80	● 112	▲ 177	---
Particles >21µm		ASTM D7647	>20	● 38	▲ 57	---
Particles >38µm		ASTM D7647	>4	● 6	3	---
Particles >71µm		ASTM D7647	>3	1	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	● 17/17/14	▲ 20/18/15	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.40	0.320

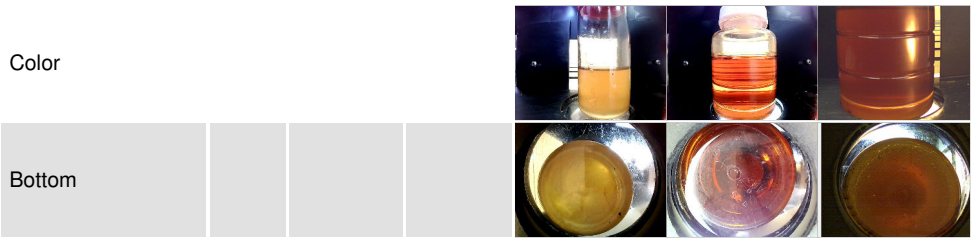
OIL ANALYSIS REPORT



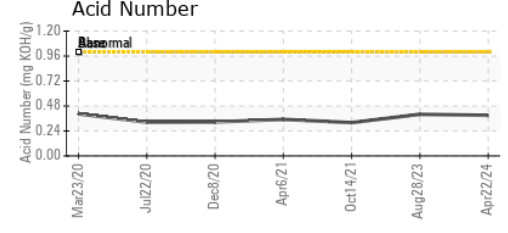
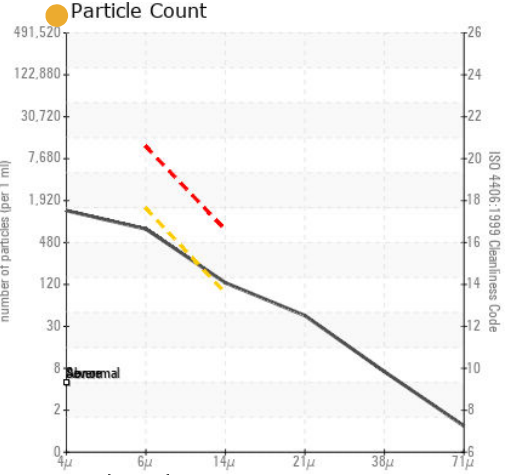
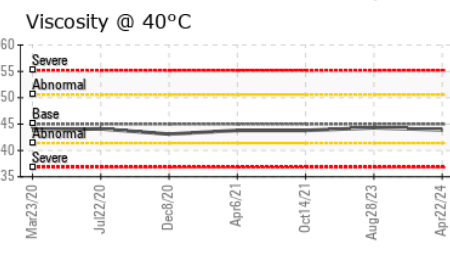
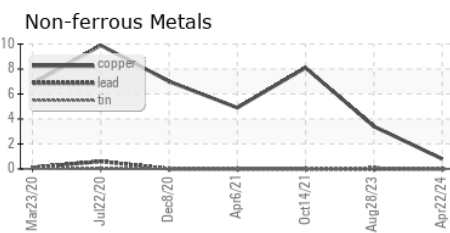
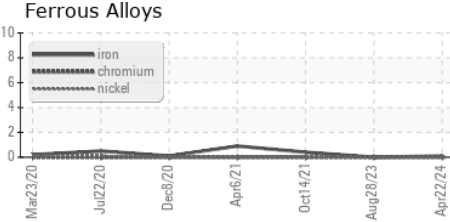
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	43.9	44.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA016411 **Received** : 25 Apr 2024
Lab Number : 06160953 **Tested** : 01 May 2024
Unique Number : 10996376 **Diagnosed** : 01 May 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

CT NASSAU TICKING LLC
 1504 ANTHONY RD
 BURLINGTON, NC
 US 27215
 Contact: BRIAN ROBERTS
 brian.g.roberts.82@gmail.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)