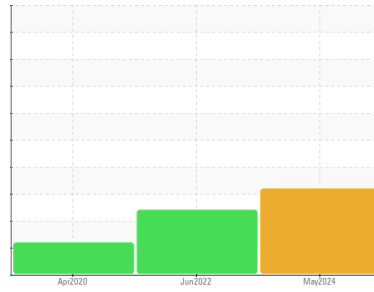




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
KAESER AIRTOWER 7.5C 5224536 (S/N 1266)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a light concentration of water present in the oil. Excessive free water present. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KCPA012912	KCP40737	KCP26047
Sample Date	Client Info			17 May 2024	24 Jun 2022	14 Apr 2020
Machine Age	hrs	Client Info		6216	5995	2469
Oil Age	hrs	Client Info		221	2277	2469
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	14	0	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	9	34	▲ 55
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

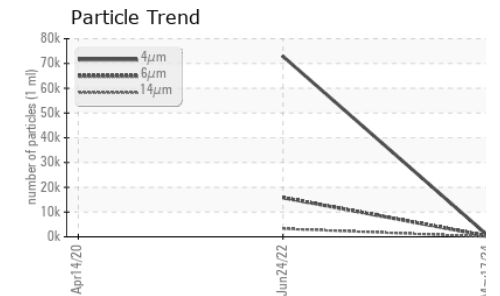
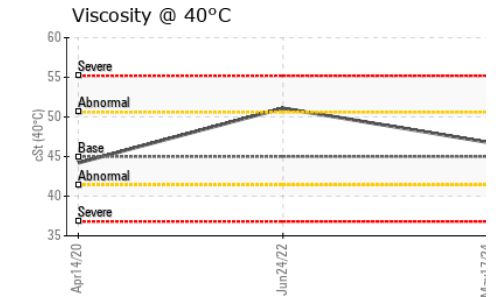
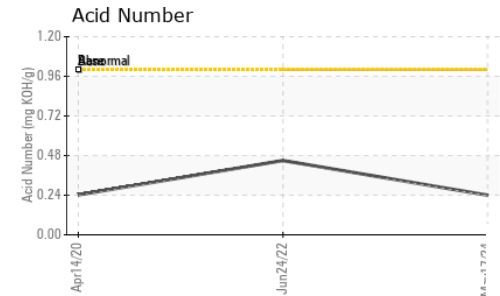
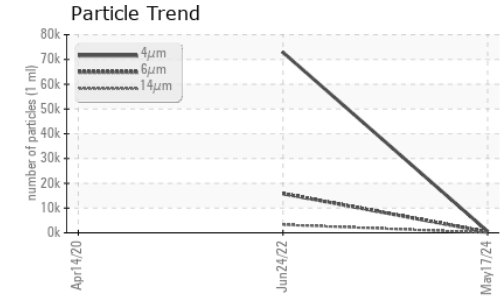
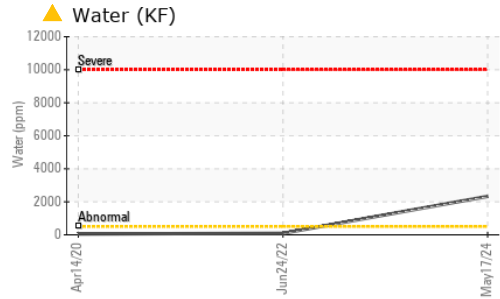
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	10	0	<1
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	<1	<1	2
Zinc	ppm	ASTM D5185m	0	32	1	6
Sulfur	ppm	ASTM D5185m	23500	23034	17644	18753

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	3	2
Sodium	ppm	ASTM D5185m		2	1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water	%	ASTM D6304	>0.05	▲ 0.233	0.009	0.005
ppm Water	ppm	ASTM D6304	>500	▲ 2330	92.4	52.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		583	72874	---
Particles >6µm		ASTM D7647	>1300	317	▲ 15829	---
Particles >14µm		ASTM D7647	>80	54	▲ 3252	---
Particles >21µm		ASTM D7647	>20	18	▲ 1320	---
Particles >38µm		ASTM D7647	>4	3	▲ 188	---
Particles >71µm		ASTM D7647	>3	0	▲ 7	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	16/15/13	▲ 23/21/19	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.24	0.45	0.242

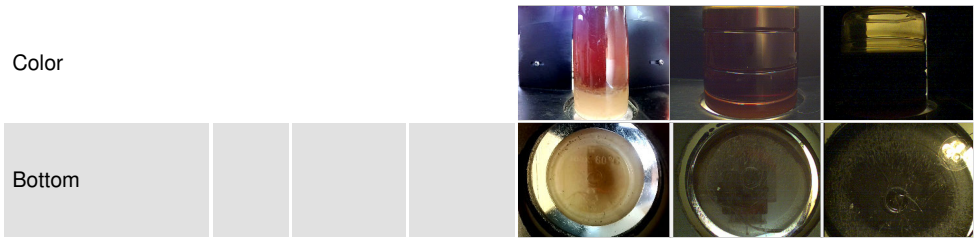
OIL ANALYSIS REPORT



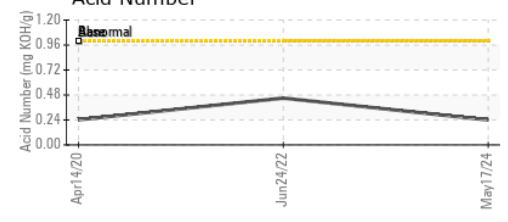
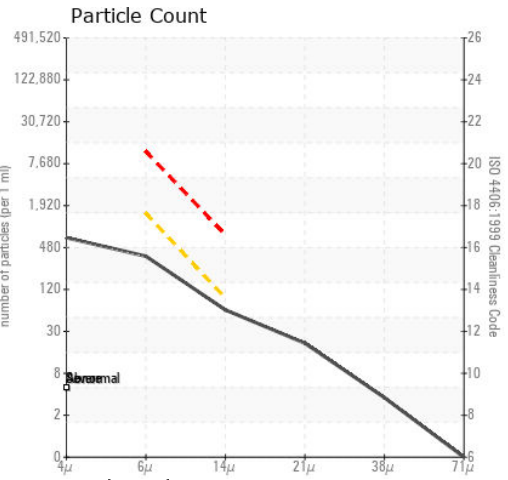
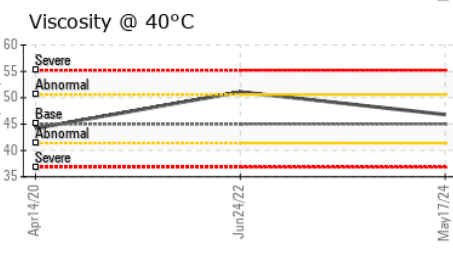
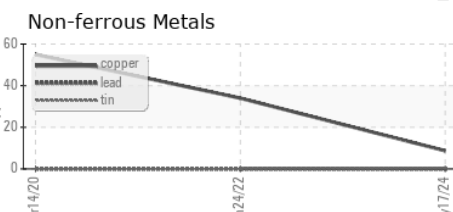
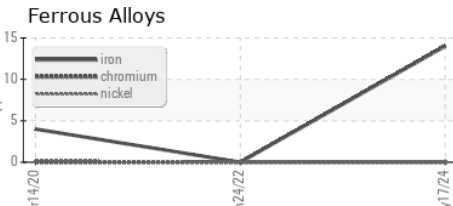
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG
Free Water	scalar	*Visual		● >10%	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 45	46.8	51.1	44.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA012912 **Received** : 20 May 2024
Lab Number : 06185031 **Tested** : 29 May 2024
Unique Number : 11036357 **Diagnosed** : 29 May 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

INI PRINTWORKS
 1333 OLD LOUISVILLE RD
 BOWLING GREEN, KY
 US 42101
 Contact: Service Manager

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)