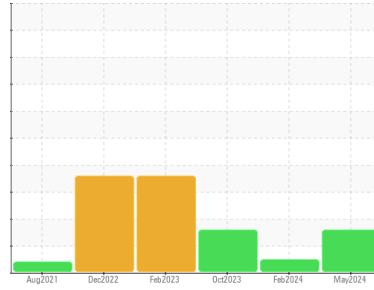




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
KAESER 7444744 (S/N 1330)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KC110218	KC100726	KC100051
Sample Date	Client Info	14 May 2024	05 Feb 2024	31 Oct 2023
Machine Age	hrs	9787	9198	8687
Oil Age	hrs	3707	511	2114
Oil Changed	Client Info	Not Chngd	Not Chngd	N/A
Sample Status		ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	0	0	<1
Chromium ppm	ASTM D5185m >10	0	0	0
Nickel ppm	ASTM D5185m >3	0	<1	0
Titanium ppm	ASTM D5185m >3	0	0	<1
Silver ppm	ASTM D5185m >2	0	0	0
Aluminum ppm	ASTM D5185m >10	0	<1	0
Lead ppm	ASTM D5185m >10	0	0	0
Copper ppm	ASTM D5185m >50	3	0	1
Tin ppm	ASTM D5185m >10	0	<1	0
Vanadium ppm	ASTM D5185m	<1	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	13	0
Molybdenum ppm	ASTM D5185m 0	0	0	0
Manganese ppm	ASTM D5185m	<1	<1	<1
Magnesium ppm	ASTM D5185m 100	37	64	36
Calcium ppm	ASTM D5185m 0	<1	0	0
Phosphorus ppm	ASTM D5185m 0	1	0	0
Zinc ppm	ASTM D5185m 0	21	21	40

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	6	5	0
Sodium ppm	ASTM D5185m	4	11	25
Potassium ppm	ASTM D5185m >20	<1	5	16
Water %	ASTM D6304 >0.05	▲ 0.191	0.027	0.008
ppm Water	ASTM D6304 >500	▲ 1910	278	82

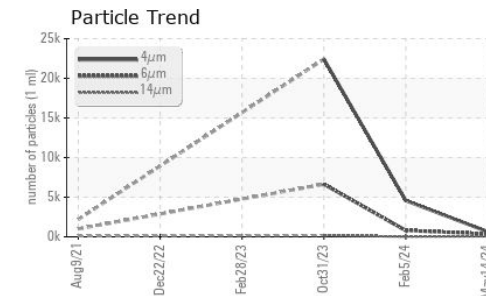
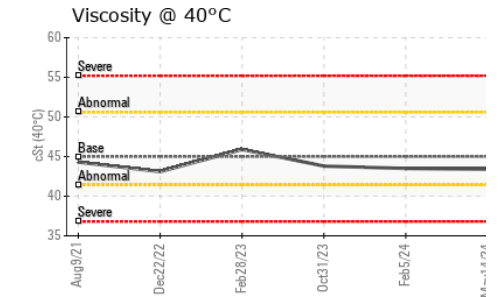
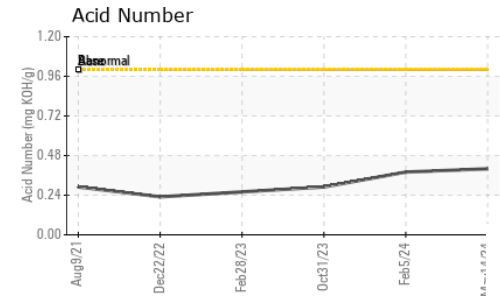
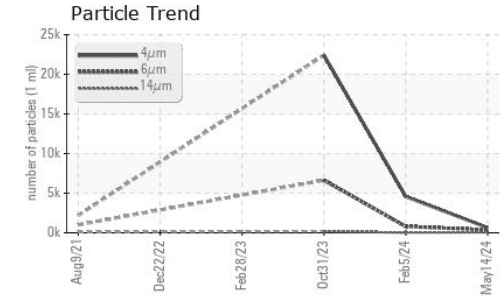
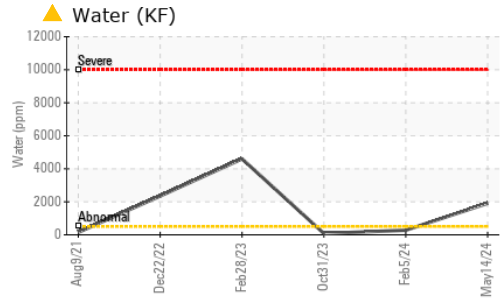
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	644	4571	22421
Particles >6µm	ASTM D7647 >1300	351	802	▲ 6635
Particles >14µm	ASTM D7647 >80	60	24	▲ 177
Particles >21µm	ASTM D7647 >20	20	4	▲ 23
Particles >38µm	ASTM D7647 >4	3	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	17/16/13	19/17/12	▲ 22/20/15

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 1.0	0.40	0.38	0.29

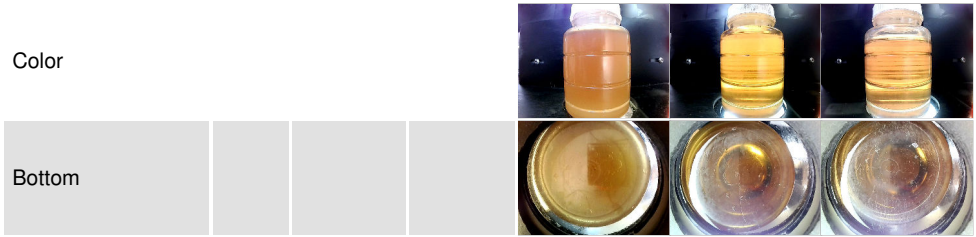
OIL ANALYSIS REPORT



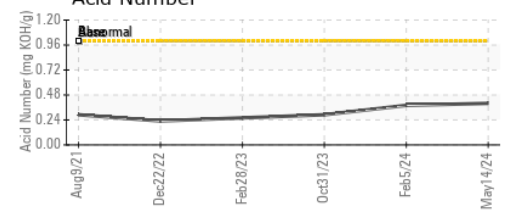
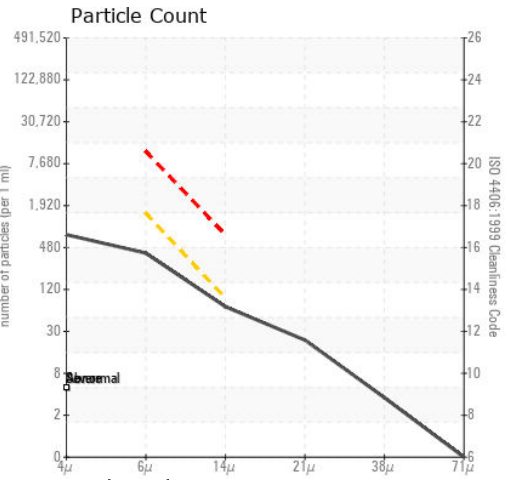
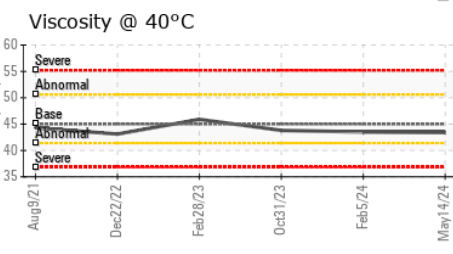
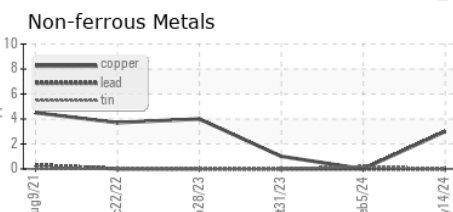
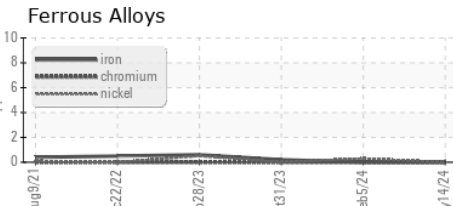
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	43.4	43.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC110218
Lab Number : 06205404
Unique Number : 11072865
Test Package : IND 2
Received : 10 Jun 2024
Tested : 17 Jun 2024
Diagnosed : 17 Jun 2024 - Sean Felton

CUMMINS-WAGNER CO INC
 10086 LEADBETTER PL
 ASHLAND, VA
 US 23005
 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)