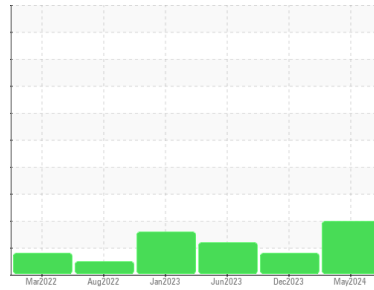




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

7842554 (S/N 1134)

Component

Compressor

Fluid

KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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	KCPA018344	KCPA009238	KCP34634
Sample Date	Client Info	30 May 2024	07 Dec 2023	27 Jun 2023
Machine Age	hrs	19232	16010	12851
Oil Age	hrs	3000	0	3024
Oil Changed	Client Info	Changed	N/A	Changed
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	2	0	1
Chromium	ppm	ASTM D5185m >10	<1	0	0
Nickel	ppm	ASTM D5185m >3	2	0	0
Titanium	ppm	ASTM D5185m >3	<1	0	0
Silver	ppm	ASTM D5185m >2	<1	0	0
Aluminum	ppm	ASTM D5185m >10	5	5	3
Lead	ppm	ASTM D5185m >10	1	0	0
Copper	ppm	ASTM D5185m >50	17	7	9
Tin	ppm	ASTM D5185m >10	<1	0	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	0	0	0
Barium	ppm	ASTM D5185m 90	1	0	0
Molybdenum	ppm	ASTM D5185m 0	<1	0	0
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m 100	8	0	2
Calcium	ppm	ASTM D5185m 0	0	0	0
Phosphorus	ppm	ASTM D5185m 0	3	0	<1
Zinc	ppm	ASTM D5185m 0	51	0	29
Sulfur	ppm	ASTM D5185m 23500	20460	16934	22860

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	1	<1	0
Sodium	ppm	ASTM D5185m	2	0	2
Potassium	ppm	ASTM D5185m >20	3	0	1
Water	%	ASTM D6304 >0.05	0.008	0.006	0.008
ppm Water	ppm	ASTM D6304 >500	87	60	89.6

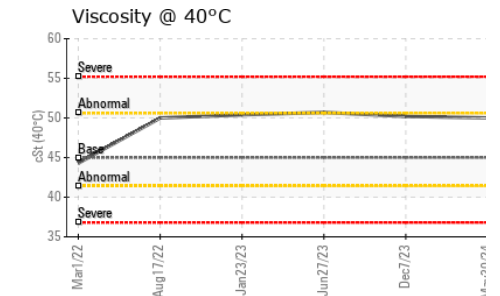
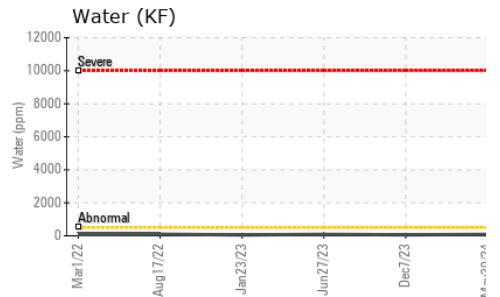
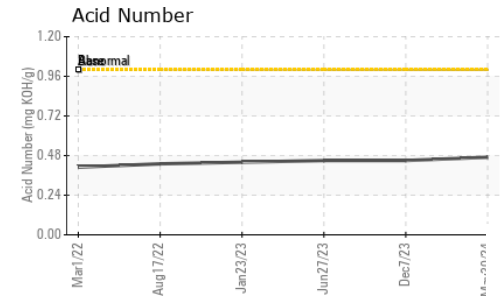
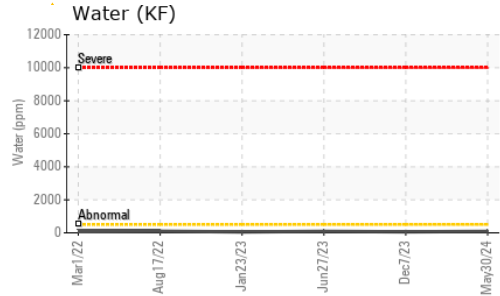
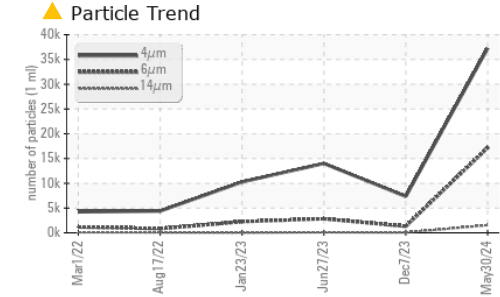
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	37255	7344	14008
Particles >6µm	ASTM D7647 >1300	▲ 17163	● 1324	▲ 2837
Particles >14µm	ASTM D7647 >80	▲ 1545	60	● 117
Particles >21µm	ASTM D7647 >20	▲ 340	13	22
Particles >38µm	ASTM D7647 >4	▲ 12	1	1
Particles >71µm	ASTM D7647 >3	1	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 22/21/18	● 20/18/13	▲ 21/19/14

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.47	0.45	0.45

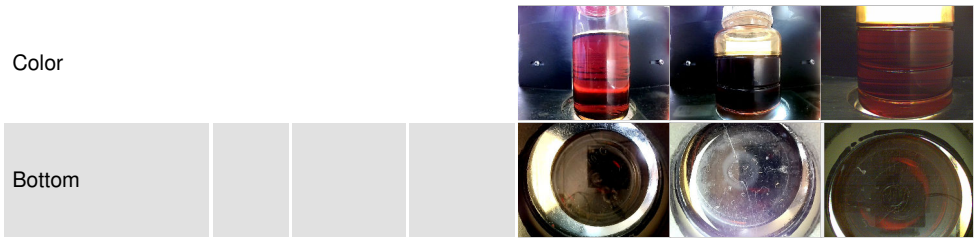
OIL ANALYSIS REPORT



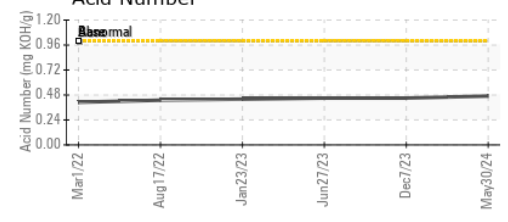
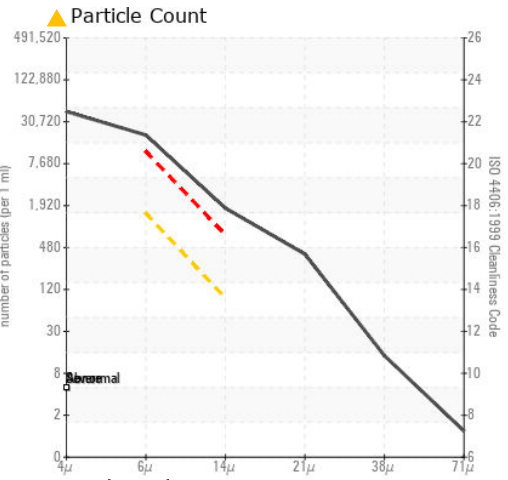
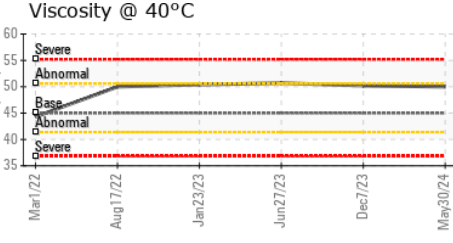
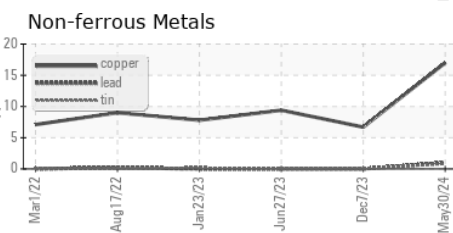
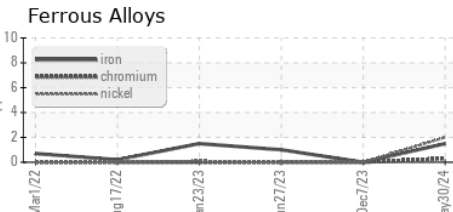
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	50.2	50.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA018344 **Received** : 21 Jun 2024
Lab Number : 06216904 **Tested** : 24 Jun 2024
Unique Number : 11089768 **Diagnosed** : 24 Jun 2024 - Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

BEST BLOCK
 2202 CHALK HILL DR
 DALLAS, TX
 US 75208
 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)

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F: