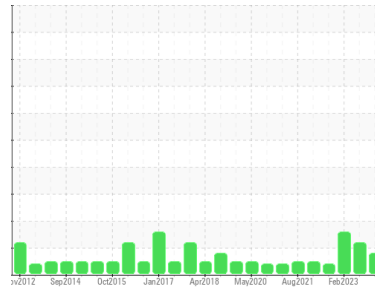




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER DSD 175 3453399 (S/N 1050)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

DIAGNOSIS

Recommendation

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 moderate amount of particulates present in the oil.

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		KCPA014228	KCPA006488	KCP54861
Sample Date	Client Info		18 Mar 2024	26 Oct 2023	02 Feb 2023
Machine Age	hrs	Client Info	109972	107579	105130
Oil Age	hrs	Client Info	4000	0	1748
Oil Changed	Client Info		Changed	N/A	Not Changd
Sample Status			ATTENTION	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	15	0	6
Chromium	ppm	ASTM D5185m >10	<1	<1	0
Nickel	ppm	ASTM D5185m >3	1	0	<1
Titanium	ppm	ASTM D5185m >3	<1	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >10	13	<1	8
Lead	ppm	ASTM D5185m >10	1	0	0
Copper	ppm	ASTM D5185m >50	7	2	4
Tin	ppm	ASTM D5185m >10	1	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	1	0	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m	<1	<1	0
Calcium	ppm	ASTM D5185m	3	0	0
Phosphorus	ppm	ASTM D5185m 500	147	0	75
Zinc	ppm	ASTM D5185m	15	0	13
Sulfur	ppm	ASTM D5185m	1500	1634	2696

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	0	<1
Sodium	ppm	ASTM D5185m	0	0	<1
Potassium	ppm	ASTM D5185m >20	1	1	0
Water	%	ASTM D6304 >0.05	0.008	0.004	0.004
ppm Water	ppm	ASTM D6304 >500	83	48.6	46.3

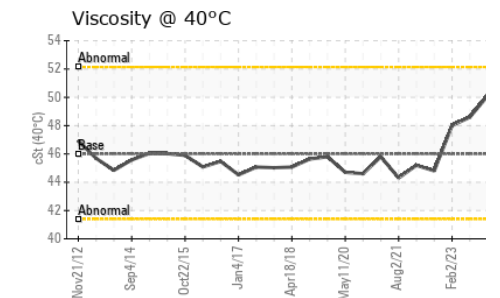
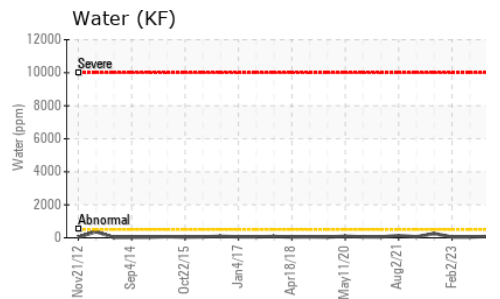
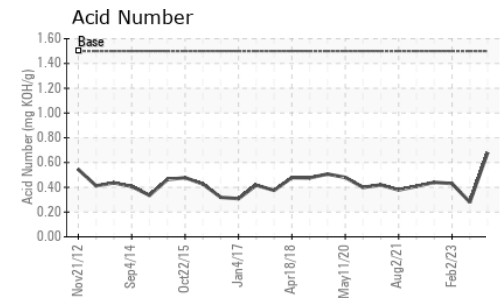
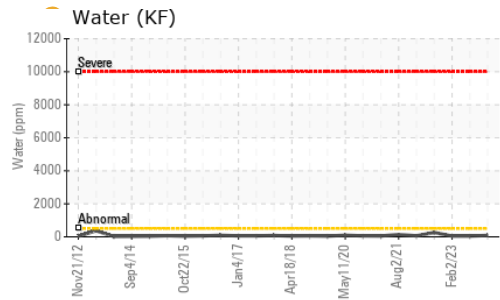
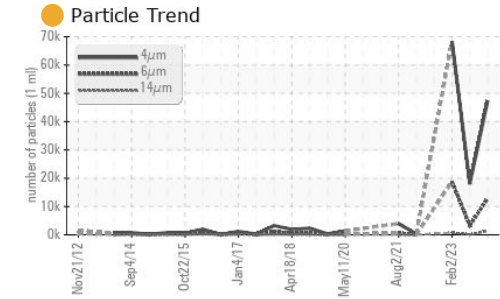
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		47362	18035	68295
Particles >6µm	ASTM D7647 >1300		12812	▲ 3276	▲ 18772
Particles >14µm	ASTM D7647 >80		1314	● 88	▲ 736
Particles >21µm	ASTM D7647 >20		373	20	▲ 82
Particles >38µm	ASTM D7647 >4		12	0	2
Particles >71µm	ASTM D7647 >3		1	0	1
Oil Cleanliness	ISO 4406 (c)	>--/17/13	23/21/18	▲ 21/19/14	▲ 23/21/17

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.5	0.68	0.28	0.43

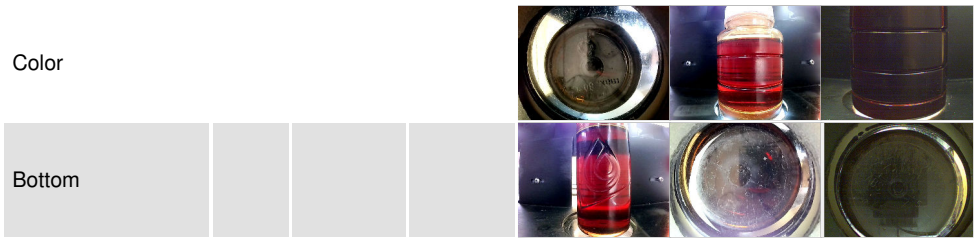
OIL ANALYSIS REPORT



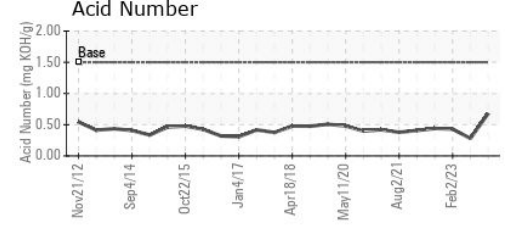
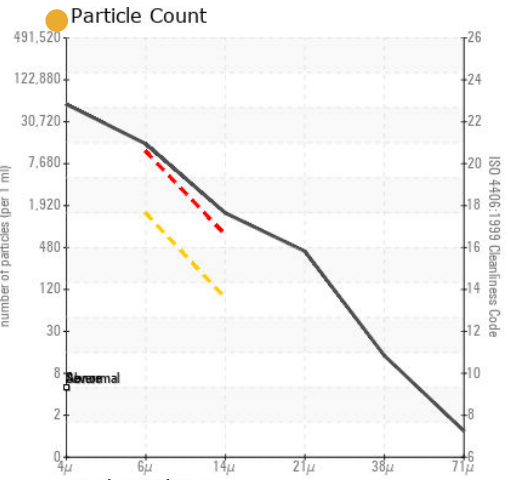
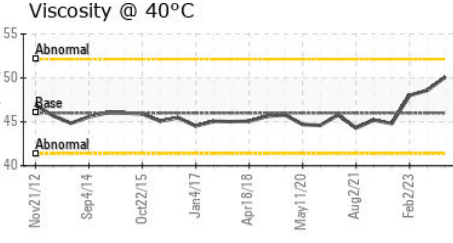
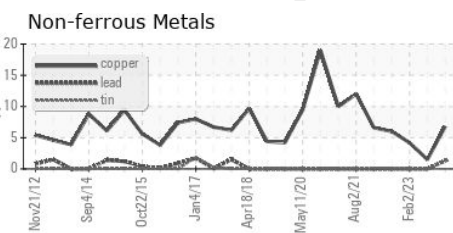
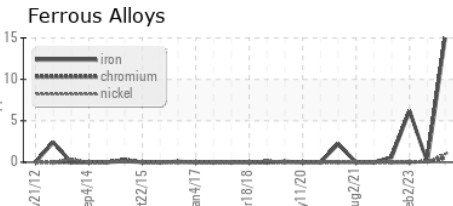
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46	50.1	48.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA014228 **Received** : 11 Apr 2024
Lab Number : 06146610 **Tested** : 12 Apr 2024
Unique Number : 10976688 **Diagnosed** : 16 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

GRIFFITH LABORATORIES
 6601 GRIFFITH WAY
 LITHONIA, GA
 US 30058
 Contact: A. COPE
 acope@griffithfoods.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)