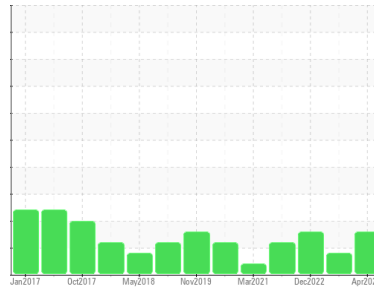




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER SK 20 5181821 (S/N 1513)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. The 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		KCPA017083	KCPA006429	KCP52763
Sample Date	Client Info		11 Apr 2024	25 Sep 2023	13 Dec 2022
Machine Age	hrs	Client Info	37908	36793	35659
Oil Age	hrs	Client Info	915	0	1265
Oil Changed	Client Info		Not Chngd	N/A	Not Chngd
Sample Status			ABNORMAL	ATTENTION	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	0	0
Titanium	ppm	ASTM D5185m >3	<1	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >10	<1	0	0
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >50	<1	2	3
Tin	ppm	ASTM D5185m >10	0	<1	0
Antimony	ppm	ASTM D5185m	---	---	---
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
Barium	ppm	ASTM D5185m 90	47	7	14
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m 90	91	67	61
Calcium	ppm	ASTM D5185m 2	3	3	1
Phosphorus	ppm	ASTM D5185m	0	1	10
Zinc	ppm	ASTM D5185m	3	3	3
Sulfur	ppm	ASTM D5185m	22772	16715	17940

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	<1	<1
Sodium	ppm	ASTM D5185m	12	15	14
Potassium	ppm	ASTM D5185m >20	3	3	8
Water	%	ASTM D6304 >0.05	0.015	0.015	0.014
ppm Water	ppm	ASTM D6304 >500	156	154.2	140.5

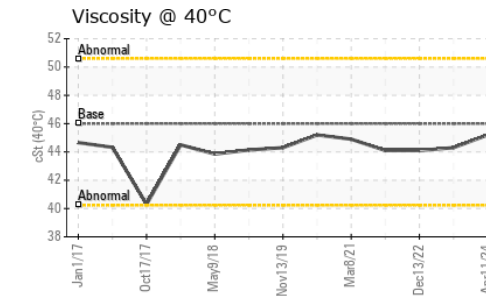
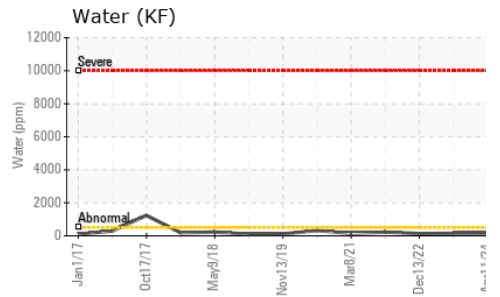
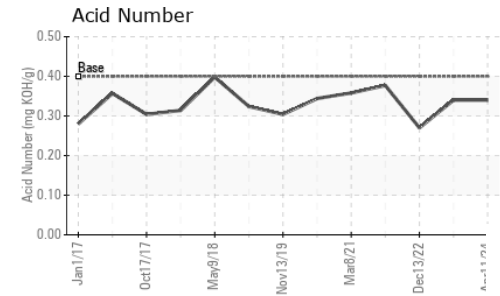
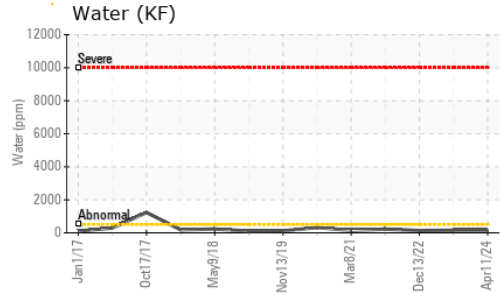
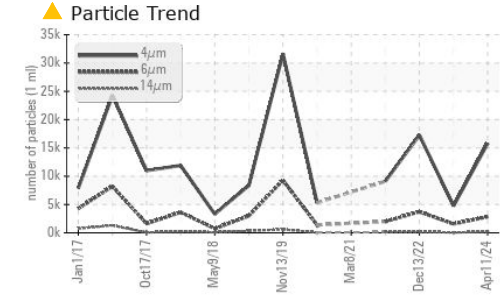
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		15780	4746	17273
Particles >6µm	ASTM D7647 >1300		▲ 2825	● 1568	▲ 3730
Particles >14µm	ASTM D7647 >80		▲ 173	57	▲ 177
Particles >21µm	ASTM D7647 >20		▲ 49	9	▲ 39
Particles >38µm	ASTM D7647 >4		3	1	2
Particles >71µm	ASTM D7647 >3		0	1	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	● 19/18/13	▲ 21/19/15

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	0.34	0.34	0.27

OIL ANALYSIS REPORT



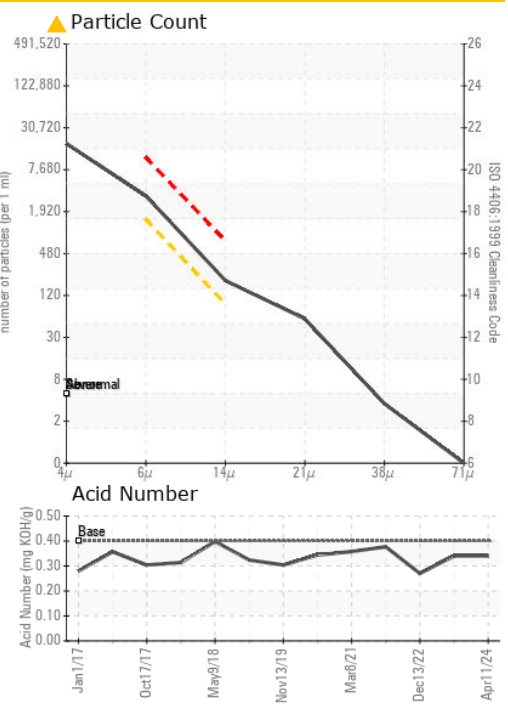
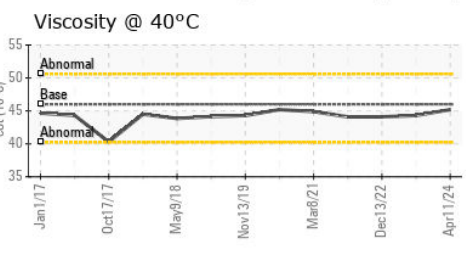
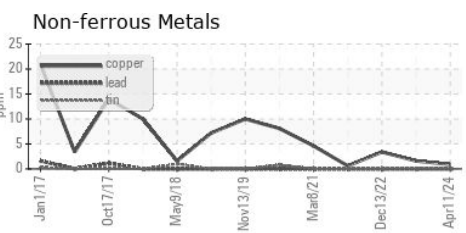
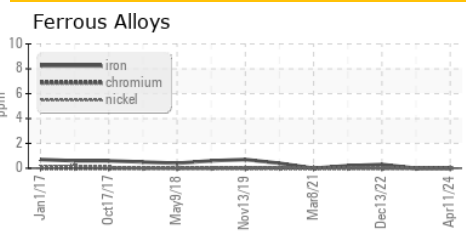
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45.2	44.3	44.1

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA017083
Lab Number : 06155954
Unique Number : 10991377
Test Package : IND 2 (Additional Tests: KF, PrtCount)
Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Don Baldrige

OXMOOR FORD
 100 OXMOOR CT
 LOUISVILLE, KY
 US 40222
 Contact: J. MIDDLETON

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)