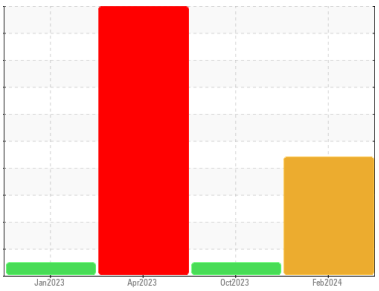
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
[2446]
Machine Id
KAESER 8559750 - SARGENT METAL PABRICATO (S/N 1997)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (4 GAL)

DIAGNOSIS

Recommendation
We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0887831**	WC0863524	WC0795131
Sample Date		Client Info		**12 Feb 2024**	17 Oct 2023	06 Apr 2023
Machine Age	hrs	Client Info		**6980**	5405	3046
Oil Age	hrs	Client Info		**6980**	1000	2405
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**1**	0	▲ 151
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m	>3	**0**	0	0
Titanium	ppm	ASTM D5185m	>3	**<1**	0	0
Silver	ppm	ASTM D5185m	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>10	**3**	<1	0
Lead	ppm	ASTM D5185m	>10	**<1**	0	0
Copper	ppm	ASTM D5185m	>50	**12**	13	11
Tin	ppm	ASTM D5185m	>10	**<1**	0	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
Barium	ppm	ASTM D5185m	90	**2**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m	90	**2**	10	2
Calcium	ppm	ASTM D5185m	2	**3**	0	<1
Phosphorus	ppm	ASTM D5185m		**4**	4	3
Zinc	ppm	ASTM D5185m		**2**	7	0
Sulfur	ppm	ASTM D5185m		**17633**	16122	16904

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**0**	0	<1
Sodium	ppm	ASTM D5185m		**0**	6	0
Potassium	ppm	ASTM D5185m	>20	**1**	4	<1
Water	%	ASTM D6304	>0.05	▲ **0.115**	---	▲ 0.178
ppm Water	ppm	ASTM D6304	>500	▲ **1150**	---	▲ 1780

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.34**	0.29	0.29

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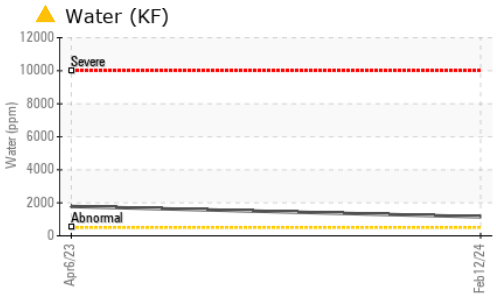
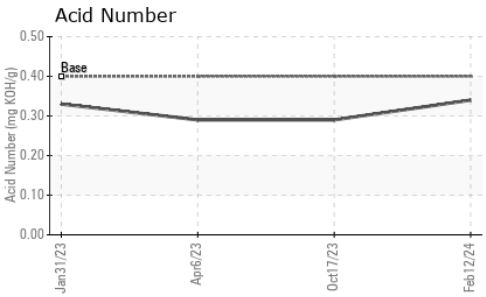
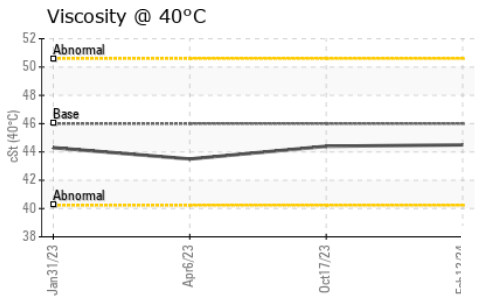




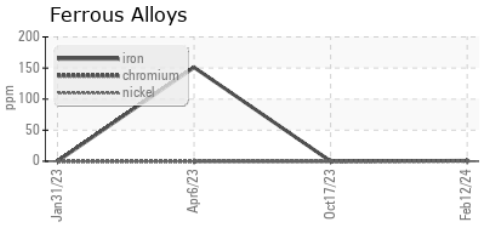


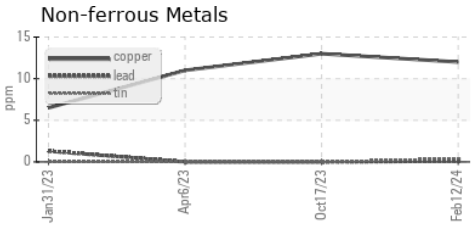
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	● **HAZY**	NORML	● HAZY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	▲ **0.2%**	NEG	0.2%
Free Water	scalar	*Visual		▲ **1.0**	NEG	▲ 10.0

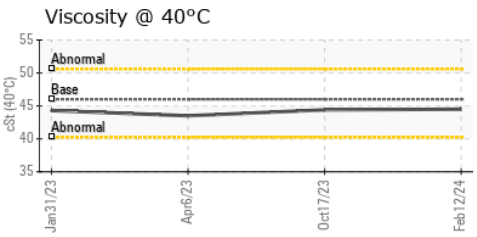
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**44.5**	44.4	43.5

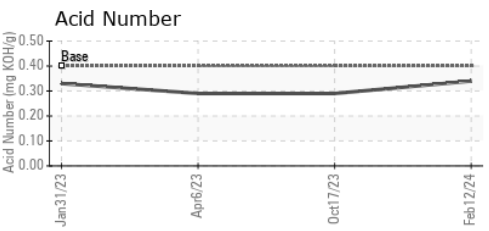
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0887831
Lab Number : 06125057
Unique Number : 10939208
Test Package : IND 2 (Additional Tests: KF)

Received : 21 Mar 2024
Tested : 25 Mar 2024
Diagnosed : 25 Mar 2024 - Don Baldridge

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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Report Id: PALFOU [WUSCAR] 06125057 (Generated: 03/25/2024 13:00:15) Rev: 1

Submitted By: DARRIN WARD