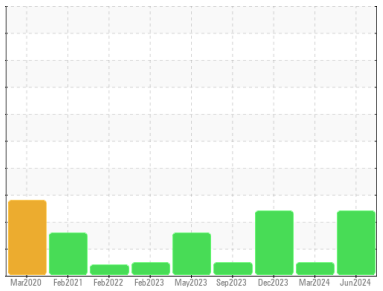
KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
6656714 (S/N 1036)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

▲ Recommendation
We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition. Please note that this is a corrected copy for data entry updates.

Wear
All component wear rates are normal.

▲ Contamination
There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KC102230**	KC111818	KC124480
Sample Date		Client Info		**01 Jun 2024**	12 Mar 2024	01 Dec 2023
Machine Age	hrs	Client Info		**14222**	17306	16697
Oil Age	hrs	Client Info		**620**	3144	0
Oil Changed		Client Info		**Not Changd**	Changed	N/A
Sample Status				**ABNORMAL**	NORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**3**	0	0
Chromium	ppm	ASTM D5185m	>10	**0**	<1	0
Nickel	ppm	ASTM D5185m	>3	**0**	<1	0
Titanium	ppm	ASTM D5185m	>3	**<1**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**9**	0	0
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**16**	19	25
Tin	ppm	ASTM D5185m	>10	**0**	0	<1
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		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	90	**6**	0	<1
Calcium	ppm	ASTM D5185m	2	**1**	0	<1
Phosphorus	ppm	ASTM D5185m		**1**	0	1
Zinc	ppm	ASTM D5185m		**56**	0	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	0	<1
Sodium	ppm	ASTM D5185m		**21**	<1	1
Potassium	ppm	ASTM D5185m	>20	**3**	<1	<1
Water	%	ASTM D6304	>0.05	▲ **0.092**	0.004	0.004
ppm Water	ppm	ASTM D6304	>500	▲ **920**	42	46

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**---**	4450	21453
Particles >6µm		ASTM D7647	>1300	**---**	1003	▲ 4965
Particles >14µm		ASTM D7647	>80	**---**	74	▲ 342
Particles >21µm		ASTM D7647	>20	**---**	26	▲ 133
Particles >38µm		ASTM D7647	>4	**---**	3	▲ 21
Particles >71µm		ASTM D7647	>3	**---**	0	▲ 3
Oil Cleanliness		ISO 4406 (c)	>--/17/13	**---**	19/17/13	▲ 22/19/16

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.31**	0.37	0.33

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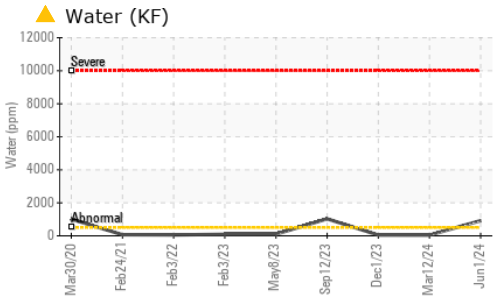
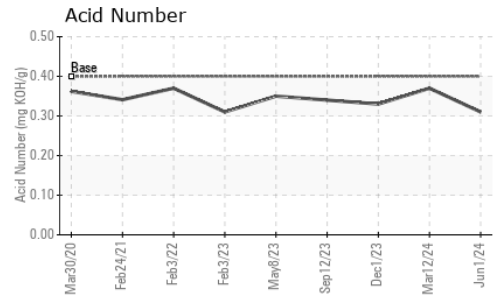
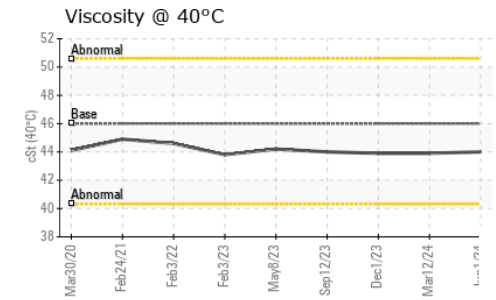




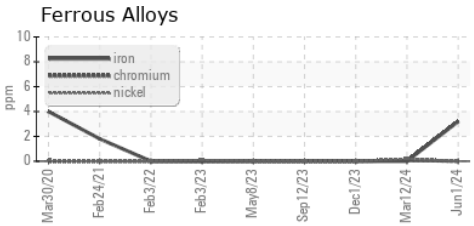


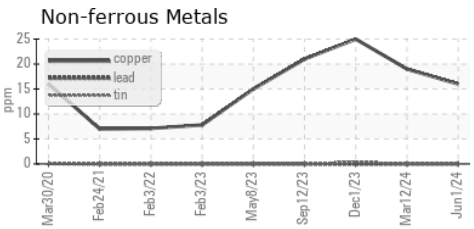
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

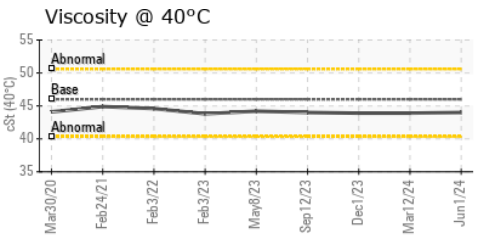
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**44.0**	43.9	43.9

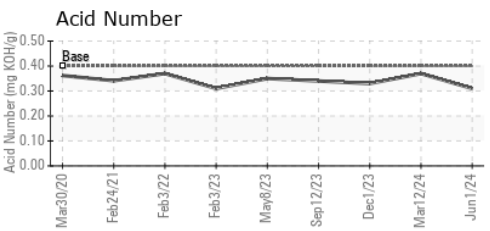
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC102230
Lab Number : 06212388
Unique Number : 11085252
Test Package : IND 2

Received : 17 Jun 2024
Tested : 01 Jul 2024
Diagnosed : 01 Jul 2024 - Doug Bogart

SPARTAN COMPOSITES
135 GUS HIPP BLVD
ROCKLEDGE, FL
US 32955
Contact: CHRISTINE BARNHART
T:
F:

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)