

# **OIL ANALYSIS REPORT**

Sample Rating Trend

Machine Id KAESER SX 5 6204268 (S/N 1015)

Component Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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. Elemental level of silicon (Si) above normal.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

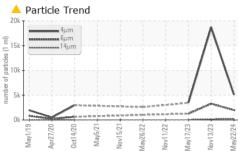
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC101147	KC122873	KC101094
Sample Date		Client Info		22 May 2024	13 Nov 2023	17 May 2023
Machine Age	hrs	Client Info		9297	8328	7529
Oil Age	hrs	Client Info		1767	0	1715
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	11	5
Tin	ppm	ASTM D5185m	>10	0	<1	<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	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	40	40	35
Calcium	ppm	ASTM D5185m	2	0	2	0
Phosphorus	ppm	ASTM D5185m		<1	5	2
Zinc	ppm	ASTM D5185m		17	16	17
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		▲ 25	40	44
Sodium	ppm	ASTM D5185m		21	9	32
Potassium	ppm	ASTM D5185m	>20	3	2	5
Water	%	ASTM D6304	>0.05	0.021	0.171	0.017
ppm Water	ppm	ASTM D6304		215	<b>▲</b> 1710	172.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5136	18713	3457
Particles >6µm		ASTM D7647	>1300	🔺 1981	<b>A</b> 3288	1283
Particles >14µm		ASTM D7647	>80	<u> </u>	<b>1</b> 62	44
Particles >21µm		ASTM D7647	>20	<u> </u>	<b>4</b> 7	5
Particles >38µm		ASTM D7647	>4	<u> </u>	3	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>20/18/15</b>	▲ 21/19/15	19/17/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.22	0.26	0.23

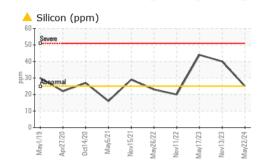


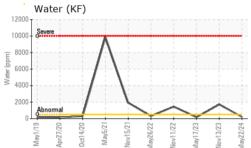
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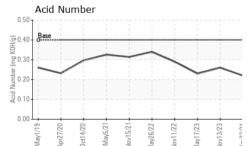
method

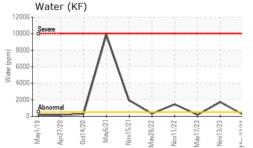
\*Visual

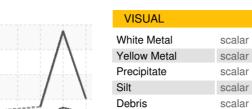












Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.4	43.3	43.5
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•		
Bottom						

limit/base

NONE

current

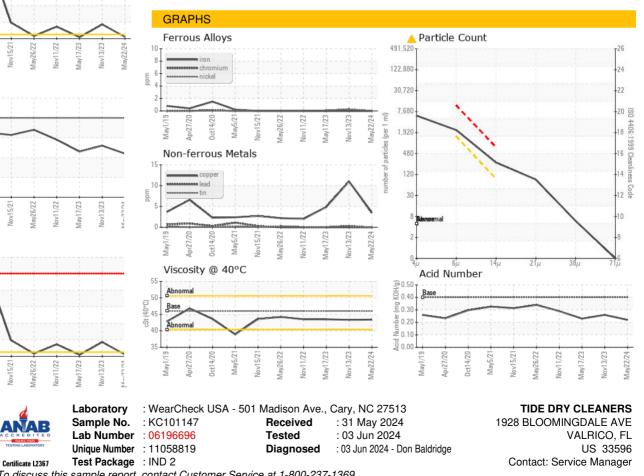
NONE

history1

NONE

history2

NONE



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)

T: F:

Report Id: TIDVAL [WUSCAR] 06196696 (Generated: 06/03/2024 15:37:28) Rev: 1

Contact/Location: Service Manager - TIDVAL Page 2 of 2