

# **OIL ANALYSIS REPORT**

#### Machine Id KAESER AIRCENTER SX5 4571865 (S/N 1136) Component

Compressor

KAESER SIGMA (OEM) S-460 (--- QTS)

## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

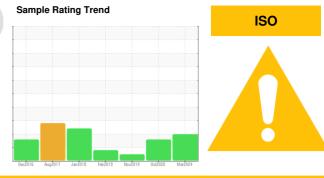
All component wear rates are normal.

#### Contamination

There is a 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.

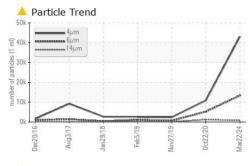


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015965	KCP29320	KCP20265
Sample Date		Client Info		22 Mar 2024	22 Oct 2020	27 Nov 2019
Machine Age	hrs	Client Info		9298	8226	7555
Oil Age	hrs	Client Info		196	671	548
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver		ASTM D5185m		0	<1	<1
	ppm			0	0	<1
Aluminum	ppm	ASTM D5185m				
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m		2	6	4
Tin	ppm	ASTM D5185m	>10	0	0	2
Antimony	ppm	ASTM D5185m			0	4
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	10	<1
Barium	ppm	ASTM D5185m	90	1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	51	14	15
Calcium	ppm	ASTM D5185m	2	24	0	0
Phosphorus	ppm	ASTM D5185m		0	2	0
Zinc	ppm	ASTM D5185m		27	53	53
Sulfur	ppm	ASTM D5185m		20351	15464	5194
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	0
Sodium	ppm	ASTM D5185m		23	32	31
Potassium	ppm	ASTM D5185m	>20	3	6	5
Water	%	ASTM D6304		0.017	0.007	0.009
ppm Water	ppm	ASTM D6304		177	75.8	92.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		43084	10853	2382
Particles >6µm		ASTM D7647	>1300	<b>13352</b>	▲ 5199	638
Particles >14µm		ASTM D7647	>80	▲ 777	▲ 1183	61
Particles >21µm		ASTM D7647		<u> </u>	▲ 539	22
Particles >38µm		ASTM D7647	>4	▲ 6	▲ 48	1
Particles >71µm		ASTM D7647		0	2	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	▲ 23/21/17	<u>∠</u> <u>∠</u> 20/17	16/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.31	0.169	0.147

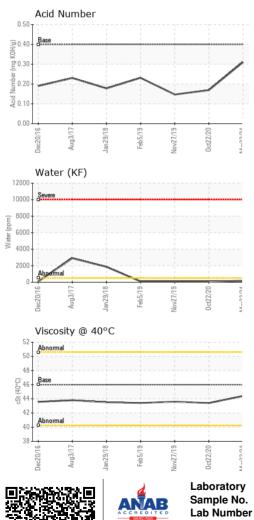
Contact/Location: JEREMY GILSON - OLDTUL



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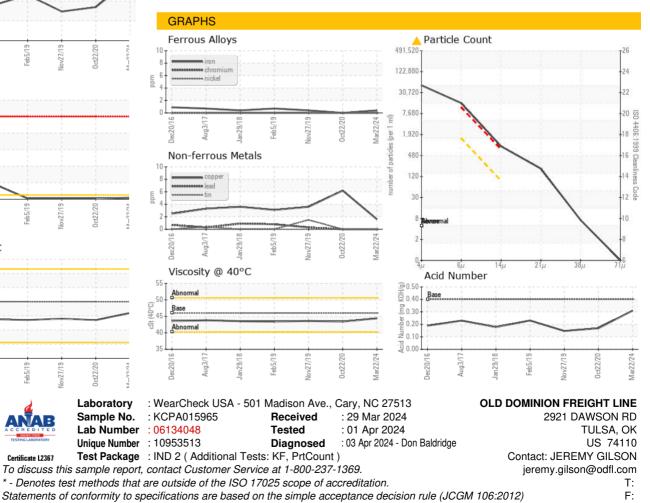






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.4	43.4	43.6
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						

Bottom



Certificate L2367

Contact/Location: JEREMY GILSON - OLDTUL