

## **OIL ANALYSIS REPORT**

Machine Id KAESER SK 20 7168557 (S/N 1528)

Component Compressor Fluid 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

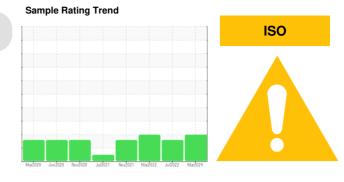
All component wear rates are normal.

### 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.



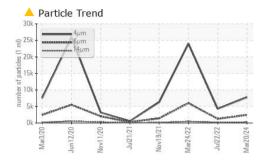
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013123	KCP51657	KCP35168
Sample Date		Client Info		20 Mar 2024	22 Jul 2022	24 Mar 2022
Machine Age	hrs	Client Info		38709	24152	20606
Dil Age	hrs	Client Info		7606	8777	2330
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	<1	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	1	<1
_ead	ppm	ASTM D5185m	>10	- <1	0	0
Copper	ppm	ASTM D5185m		10	1	4
Tin	ppm	ASTM D5185m	>10	1	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	80	104	58
Volybdenum	ppm	ASTM D5185m		1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Vagnesium	ppm	ASTM D5185m	90	73	94	82
Calcium	ppm	ASTM D5185m	2	6	3	2
Phosphorus	ppm	ASTM D5185m		5	9	27
Zinc	ppm	ASTM D5185m		6	2	0
Sulfur	ppm	ASTM D5185m		18846	24039	15414
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	2	1
Sodium	ppm	ASTM D5185m		38	22	24
Potassium	ppm	ASTM D5185m	>20	14	8	5
Water	%	ASTM D6304	>0.05	0.014	0.033	0.017
opm Water	ppm	ASTM D6304	>500			172.0
		//01101 D0004	>500	143	332.6	172.0
FLUID CLEANLIN	ESS	method	limit/base	143 current	332.6 history1	history2
FLUID CLEANLIN	ESS					
FLUID CLEANLIN Particles >4μm	ESS	method	limit/base	current	history1	history2
FLUID CLEANLIN Particles >4μm Particles >6μm	ESS	method ASTM D7647	limit/base	current 7787	history1 4283	history2 24036
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm	ESS	method ASTM D7647 ASTM D7647	limit/base >1300 >80	current 7787 ▲ 2413	history1 4283 1243	history2 24036 ▲ 6019
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm	ESS	method ASTM D7647 ASTM D7647 ASTM D7647	limit/base >1300 >80	current 7787 ▲ 2413 ▲ 275	history1 4283 1243 ▲ 186	history2 24036 ▲ 6019 ▲ 474
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm	ESS	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >1300 >80 >20 >4	current     7787     ▲ 2413     ▲ 275     ▲ 91	history1 4283 1243 ▲ 186 ▲ 70	history2 24036 ▲ 6019 ▲ 474 ▲ 177
FLUID CLEANLIN   Particles >4μm   Particles >6μm   Particles >14μm   Particles >21μm   Particles >38μm   Particles >71μm	ESS	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >1300 >80 >20 >4	current   7787   ▲ 2413   ▲ 275   ▲ 91   ▲ 8	history1   4283   1243   ▲ 186   ▲ 70   ▲ 8	history2 24036 ▲ 6019 ▲ 474 ▲ 177 ▲ 26
		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >1300 >80 >20 >4 >3	current   7787   ▲ 2413   ▲ 275   ▲ 91   ▲ 8   0	history1   4283   1243   ▲ 186   ▲ 70   ▲ 8   0	history2 24036 ▲ 6019 ▲ 474 ▲ 177 ▲ 26 ▲ 4

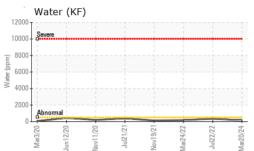
Report Id: XOMGAI [WUSCAR] 06135648 (Generated: 04/05/2024 16:46:38) Rev: 1

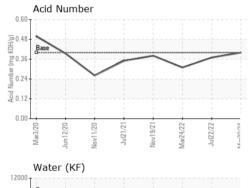
Contact/Location: ? ? - XOMGAI

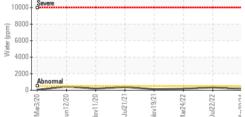


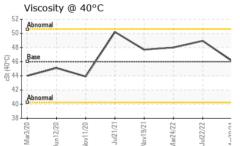
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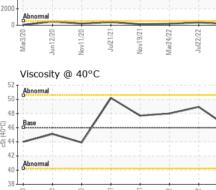






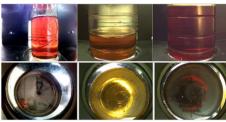




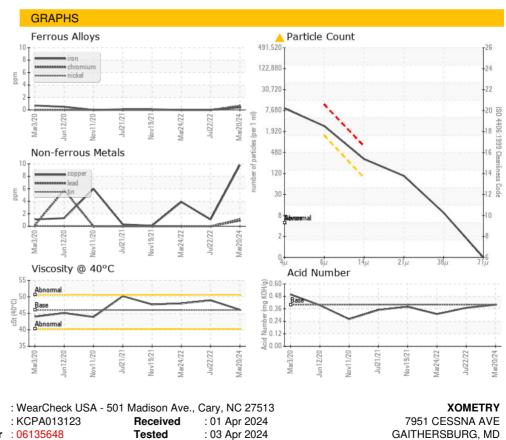


#### VISUAL limit/base method history1 history2 current NONE NONE NONE White Metal \*Visual NONE scalar Yellow Metal \*Visual NONE NONE NONE NONE scalar Precipitate NONE NONE scalar \*Visual NONE NONE Silt scalar \*Visual NONE NONE NONE NONE Debris \*Visual NONE NONE NONE LIGHT scalar Sand/Dirt NONE NONE NONE scalar \*Visual NONE NORML NORML NORML NORML Appearance scalar \*Visual Odor \*Visual NORML NORML NORML NORML scalar **Emulsified Water** scalar \*Visual >0.05 NEG NEG NEG Free Water scalar \*Visual NEG NEG NEG FLUID PROPERTIES method limit/base curren history history2 Visc @ 40°C cSt ASTM D445 46 46.1 48.94 48.0 SAMPLE IMAGES method limit/base historv2 current historv1

Color



Bottom





Laboratory Sample No. Lab Number Unique Number : 10955113 Certificate 12367

Tested Diagnosed : 04 Apr 2024 - Don Baldridge Test Package : IND 2 (Additional Tests: KF, PrtCount)

GAITHERSBURG, MD US 20879 Contact:

T:

F:

\* - 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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Contact/Location: ? ? - XOMGAI Page 2 of 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.