

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id KAESER SM 10 5628077 (S/N 2217)

Component Compressor Fluid

KAESER SIGMA (OEM) M-460 (--- GAL)

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 moderate 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.

	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013763	KCP23806	
Sample Date		Client Info		14 Mar 2024	14 Nov 2019	
Machine Age	hrs	Client Info		42285	20300	
Dil Age	hrs	Client Info		3520	8740	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	0	0	
Lead		ASTM D5185m	>10	0	0	
	ppm			14	26	
Copper	ppm	ASTM D5185m ASTM D5185m				
Tin A atting a group	ppm		>10	<1	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	100	8	0	
Calcium	ppm	ASTM D5185m	0	0	0	
Phosphorus	ppm	ASTM D5185m	0	0	<1	
Zinc	ppm	ASTM D5185m	0	39	39	
Sulfur	ppm	ASTM D5185m	23500	20269	21562	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 34	3 7	
Sodium	ppm	ASTM D5185m		14	<1	
Potassium	ppm	ASTM D5185m	>20	2	0	
Water	%	ASTM D6304		0.009	0.005	
opm Water	ppm	ASTM D6304	>500	92	55.1	
FLUID CLEANLINI		method	limit/base	current	history1	history2
		ASTM D7647		4638	7925	
Particles >4µm				1429	1868	
		ASTM D7647	>1300	1429		
Particles >4μm Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647	>1300 >80			
Particles >6μm Particles >14μm		ASTM D7647	>80	123	119	
Particles >6μm Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647	>80 >20	12327	11937	
Particles >6µm Particles >14µm Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647 ASTM D7647	>80 >20 >4	 123 27 1 	 119 37 0 	
Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>80 >20 >4 >3	123 27 1 0	 119 37 0 0 	
Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647 ASTM D7647	>80 >20 >4	 123 27 1 	 119 37 0 	

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Contact/Location: D. MILLER - TIDEDM



Built for a lifetime

60

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40

Ed 30

20

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of particles (1 61

> 2 0

12000

1000 800

600 Water 400

200

1.20

(^{B/HO)}

Ê0.72

e 0.48

Pio QCI

0.00

1200

1000

800 r (ppm)

4000

2000

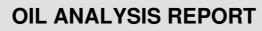
Abnorma

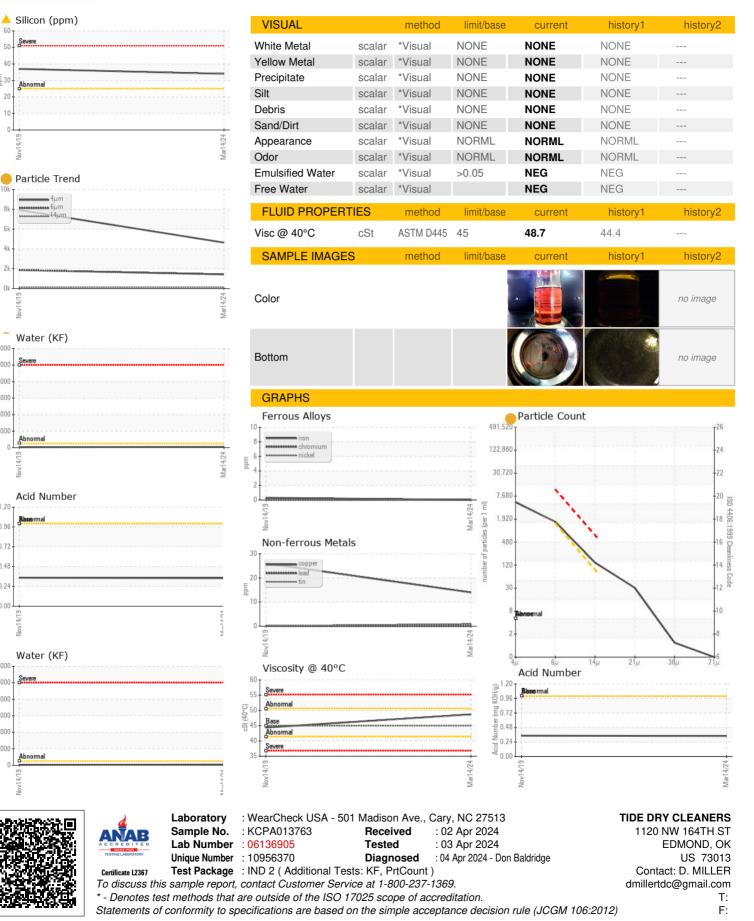
Water

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Abnorma





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