

OIL ANALYSIS REPORT

KAESER BSD 50 2999439 (S/N 1582)

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

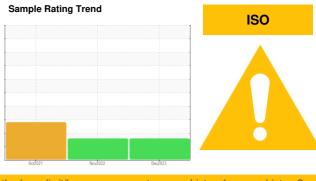
All component wear rates are normal.

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		KCPA009948	KCP46430	KCP39419
Sample Date		Client Info		22 Dec 2023	10 Nov 2022	14 Oct 2021
Machine Age	hrs	Client Info		9241	72889	63863
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	8	9	10
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	100	1	0	<1
Calcium	ppm	ASTM D5185m	0	0	0	3
Phosphorus	ppm	ASTM D5185m	0	22	1	2
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	23500	21311	20238	14040
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	5	<1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D5105III		0.008	0.005	▲ 0.127
ppm Water	ppm	ASTM D6304 ASTM D6304	>500	81	58.8	▲ 1270
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		63039	54408	
Particles >6µm		ASTM D7647	>1300	▲ 7692	▲ 11340	
Particles >14µm		ASTM D7647	>80	▲ 385	▲ 372	
Particles >21µm		ASTM D7647		▲ 101	▲ 95	
Particles >38µm		ASTM D7647 ASTM D7647	>20	4	4	
Particles >30µm				4	4	
		ASTM D7647				
Oil Cleanliness		ISO 4406 (c)	>/17/13	23/20/16	▲ 23/21/16	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	ma KOU/~	ACTM DO015	10	0.41	0.51	0 207

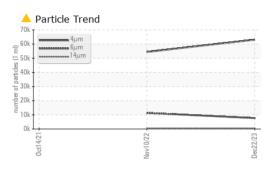
Acid Number (AN) mg KOH Report Id: VSSWES [WUSCAR] 06058765 (Generated: 01/15/2024 16:43:51) Rev: 1

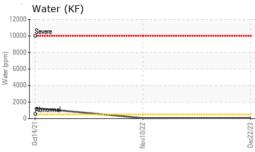
mg KOH/g ASTM D8045 1.0

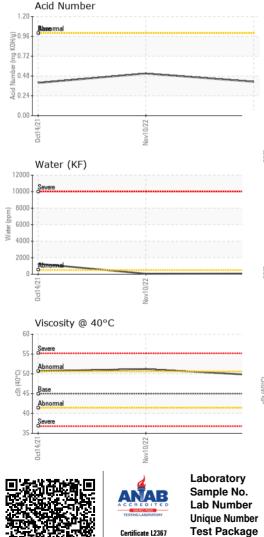
0.41 0.51 0.397 Contact/Location: Service Manager - VSSWES

KAESER COMPRESSORS Built for a lifetime."

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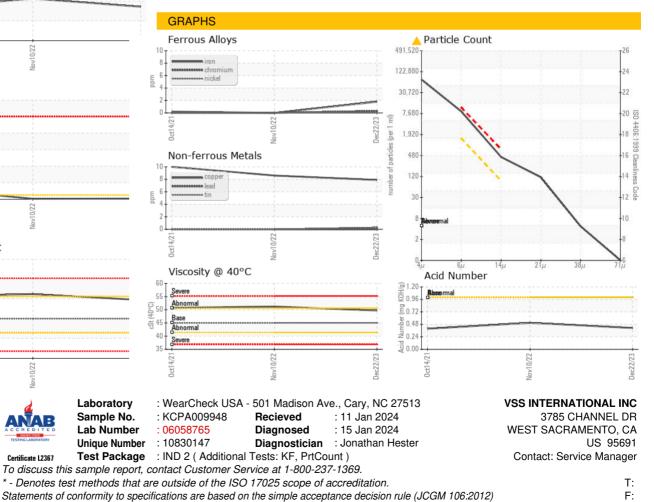






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	A HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	49.7	51.2	50.7
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom



Contact/Location: Service Manager - VSSWES