

OIL ANALYSIS REPORT

Sample Rating Trend



KAESER 7499592

Compressor

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

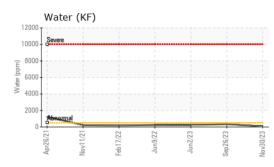
Fluid Condition

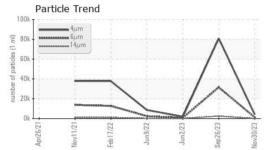
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

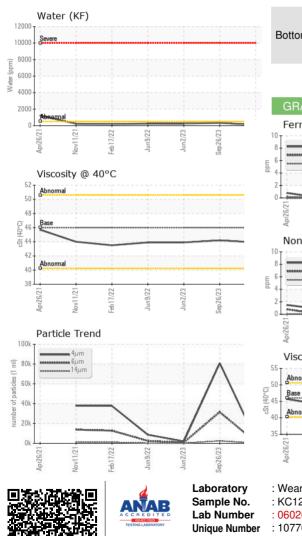
Sample Date Client Info 30 Nov 2023 26 Sep 2023 02 Jun 2023 Machine Age hrs Client Info 0 0 182 Oil Age hrs Client Info 0 0 182 Oil Changed Client Info N/A N/A N/A NOT Changd Sample Status Imit/base current History1 History2 Iron ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >10 0 -1 1 Lead ppm ASTM D5185m 10 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Astm D5185m 0 0 0 0 0 0 Vanadium ppm	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
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Oil Age hrs Client Info 0 182 Oil Changed Client Info N/A M/A N/A M/A N/A M/A N/A M/A N/A M/A N/A M/A M/A N/A M/A M/A<	Sample Date		Client Info		30 Nov 2023	26 Sep 2023	02 Jun 2023
Oil Changed Client Info N/A N/A N/A Not Changd Sample Status Image: Current NormAL ABNORMAL NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Othornium ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Baino ASTM D5185m >3 0 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m 0 0 0 0 Additionum ppm ASTM D5185m 0 0 0 0 <tr< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>10193</th><th>9762</th><th>9186</th></tr<>	Machine Age	hrs	Client Info		10193	9762	9186
Sample Status Initial Monormal NORMAL ABNORMAL NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >3 0 0 <1 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1 <1 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m 0 0 0 0 Adminum ppm ASTM D5185m 0 0 0 0 Admotinum ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0	Oil Age	hrs	Client Info		0	0	182
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >50 0 0 0 Nickel ppm ASTM 05185m >3 0 0 0 Nickel ppm ASTM 05185m >3 0 0 0 Nickel ppm ASTM 05185m >3 0 0 0 Aluminum ppm ASTM 05185m >10 0 <1 <1 Lead ppm ASTM 05185m >10 0 0 0 Copper ppm ASTM 05185m 0 0 0 0 Yanadium ppm ASTM 05185m 0 0 0 0 Admium ppm ASTM 05185m 0 0 0 0 Admium ppm ASTM 05185m 0 0 0 0 Boron ppm ASTM 05185m 0 0 0 0 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>N/A</th> <th>Not Changd</th>	Oil Changed		Client Info		N/A	N/A	Not Changd
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Nickel ppm ASTM D5185m >3 0 0 <1	Iron	ppm	ASTM D5185m	>50	0	0	0
Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1 <1 Lead ppm ASTM D5185m >50 <1 <1 0 Copper ppm ASTM D5185m >50 <1 <1 0 Copper ppm ASTM D5185m >50 <1 <1 0 Copper ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 90 10 0 <1 Magnese ppm ASTM D5185m 90 70 77 85 Calcium ppm ASTM D5185m 2 1 1 1 Phosphorus ppm ASTM D5185m 2 0 0 <td< th=""><th>Chromium</th><th>ppm</th><th>ASTM D5185m</th><th>>10</th><th>0</th><th>0</th><th>0</th></td<>	Chromium	ppm	ASTM D5185m	>10	0	0	0
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Copper ppm ASTM D5185m >50 <1	Lead				0	0	0
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Silicon ppm ASTM D5185m >25 0 0 0 Sodium ppm ASTM D5185m 10 9 8 Potassium ppm ASTM D5185m >20 2 2 4 Water % ASTM D6304 >0.05 0.008 0.033 0.023 ppm Water ppm ASTM D6304 >500 83 337.1 234.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 4220 80898 1852 Particles >6µm ASTM D7647 >1300 1295 31514 708 Particles >14µm ASTM D7647 >80 78 2425 66 Particles >21µm ASTM D7647 >20 16 450 14 Particles >38µm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/17/13 24/22/18 18/17/13	Zinc		ASTM D5185m		0		0
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Potassium ppm ASTM D5185m >20 2 2 4 Water % ASTM D6304 >0.05 0.008 0.033 0.023 ppm Water ppm ASTM D6304 >500 83 337.1 234.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 4220 80898 1852 Particles >6µm ASTM D7647 >1300 1295 △ 31514 708 Particles >14µm ASTM D7647 >80 78 △ 2425 66 Particles >21µm ASTM D7647 >20 16 △ 450 14 Particles >38µm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/17/13 △ 24/22/18 18/17/13 FLUID DEGRADATION method limit/base current history1 history2	Sodium		ASTM D5185m		10	9	8
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ppm Water ppm ASTM D6304 >500 83 337.1 234.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 4220 80898 1852 Particles >6µm ASTM D7647 >1300 1295 A 31514 708 Particles >14µm ASTM D7647 >80 78 24225 66 Particles >21µm ASTM D7647 >20 16 450 14 Particles >38µm ASTM D7647 >4 1 13 1 Particles >71µm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) /17/13 19/17/13 24/22/18 18/17/13 FLUID DEGRADATION method limit/base current history1 history2	Water		ASTM D6304	>0.05	0.008	0.033	0.023
Particles >4µm ASTM D7647 4220 80898 1852 Particles >6µm ASTM D7647 >1300 1295 ▲ 31514 708 Particles >14µm ASTM D7647 >80 78 ▲ 2425 66 Particles >21µm ASTM D7647 >20 16 ▲ 450 14 Particles >38µm ASTM D7647 >4 1 ▲ 13 1 Particles >71µm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/17/13 ▲ 24/22/18 18/17/13	ppm Water	ppm	ASTM D6304	>500	83	337.1	234.1
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Particles >14µm ASTM D7647 >80 78 ▲ 2425 66 Particles >21µm ASTM D7647 >20 16 ▲ 450 14 Particles >38µm ASTM D7647 >4 1 ▲ 13 1 Particles >71µm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/17/13 ▲ 24/22/18 18/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm		ASTM D7647		4220	80898	1852
Particles >21μm ASTM D7647 >20 16 450 14 Particles >38μm ASTM D7647 >4 1 13 1 Particles >37μm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/17/13 24/22/18 18/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>1300	1295	A 31514	708
Particles >38μm ASTM D7647 >4 1 ▲ 13 1 Particles >71μm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/17/13 ▲ 24/22/18 18/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>80	78	A 2425	66
Particles >71μm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/17/13 4 24/22/18 18/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>20	16	4 50	14
Oil CleanlinessISO 4406 (c) >/17/1319/17/1324/22/1818/17/13FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Particles >38µm		ASTM D7647	>4	1	1 3	1
Oil Cleanliness ISO 4406 (c) >/17/13 19/17/13 24/22/18 18/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0	1	0
	Oil Cleanliness			>/17/13	19/17/13	▲ 24/22/18	18/17/13
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.30 0.34 0.34	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.30	0.34	0.34



OIL ANALYSIS REPORT







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	NONE	LIGHT
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	ΓIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.9	44.2	43.9
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color					•	

Bottom

