

OIL ANALYSIS REPORT

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Ca

Machine Id KAESER SX 5 AIRCENTER 5921091 (S/N 1642) Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

Wear

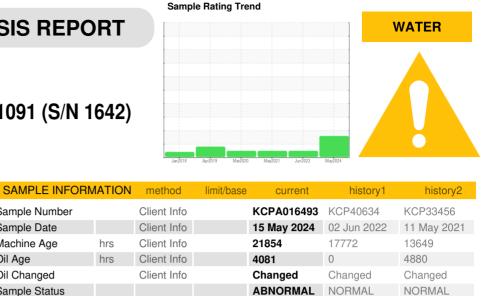
All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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



WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		0	<1	<1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m		۰ <1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	2	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>50	6	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	11
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	36	52	62
Calcium	ppm	ASTM D5185m	2	0	<1	0
Phosphorus	ppm	ASTM D5185m		1	7	3
Zinc	ppm	ASTM D5185m		0	4	<1
Sulfur	ppm	ASTM D5185m		23800	21310	15899
	2	mothod	limit/bass	ourropt	biotoput	biotory2

	2	mounou	initia babb	Garront	Thotory I	motory
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		12	9	14
Potassium	ppm	ASTM D5185m	>20	3	1	1
Water	%	ASTM D6304	>0.05	6 0.222	0.034	0.022
ppm Water	ppm	ASTM D6304	>500	<u> </u>	344.4	221.2

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		470	183	1558
Particles >6µm	ASTM D7647	>1300	256	57	622
Particles >14µm	ASTM D7647	>80	44	5	28
Particles >21µm	ASTM D7647	>20	15	1	4
Particles >38µm	ASTM D7647	>4	2	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>/17/13	16/15/13	15/13/10	16/12

limit/base

current

FLUID DEGRADATION Acid Number (AN)

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method mg KOH/g ASTM D8045 0.4

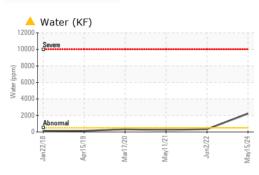
0.28 0.32 0.325 Contact/Location: S. THAPA - FEMSUW

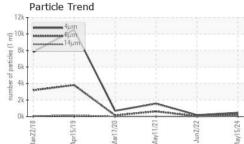
history1

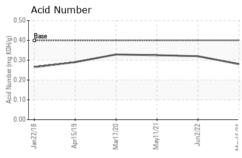
history2

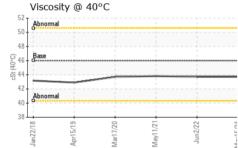


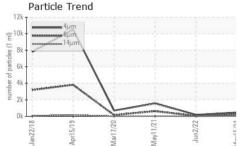
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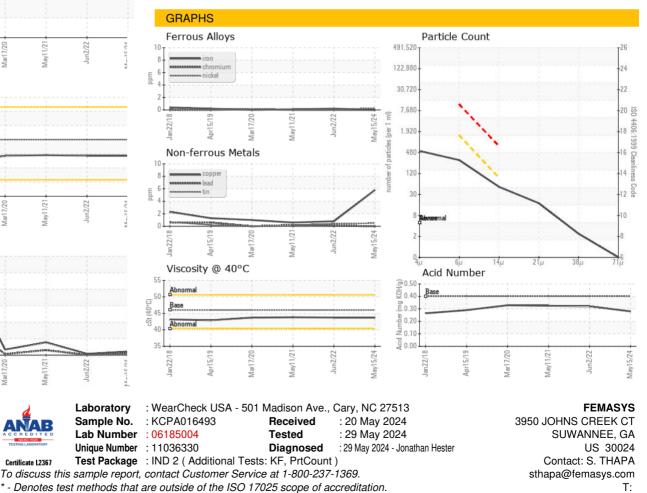


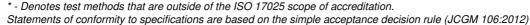




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	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	43.7	43.7	43.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom





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Certificate 12367

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