

## **OIL ANALYSIS REPORT**

## KAESER SX5 4575122 (S/N 1141) Component

Compressor

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

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

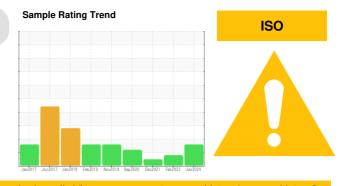
All component wear rates are normal.

#### 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.



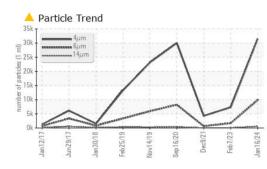
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA008999	KCP54497	KCP28329
Sample Date		Client Info		16 Jan 2024	07 Feb 2023	09 Dec 2021
Machine Age	hrs	Client Info		57304	51895	43628
Oil Age	hrs	Client Info		0	3000	4589
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	5	15	12
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppin		11 11 11		-	-
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	0
Magnesium	ppm	ASTM D5185m	100	0	<1	13
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m	0	0	8	0
Zinc	ppm	ASTM D5185m	0	9	11	27
Sulfur	ppm	ASTM D5185m	23500	17909	21803	16385
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	1	<1
Sodium	ppm	ASTM D5185m		6	<1	5
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.003	0.004	0.007
ppm Water	ppm	ASTM D6304	>500	36	41.2	72.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		31464	7320	4267
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>1</b> 701	626
Particles >14µm		ASTM D7647	>80	<u> </u>	46	28
Particles >21µm		ASTM D7647	>20	<u> </u>	5	6
Particles >38µm		ASTM D7647	>4	2	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 22/20/16	▲ 20/18/13	16/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.20	0.37	0.310
( -)	0 - 0					

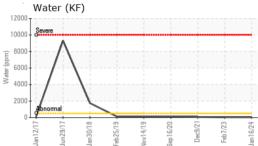
Acid Number (AN) Report Id: OLDTOM [WUSCAR] 06073906 (Generated: 01/31/2024 17:31:26) Rev: 1

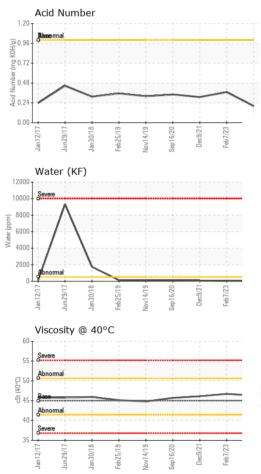
Contact/Location: DAVE ALLISON - OLDTOM



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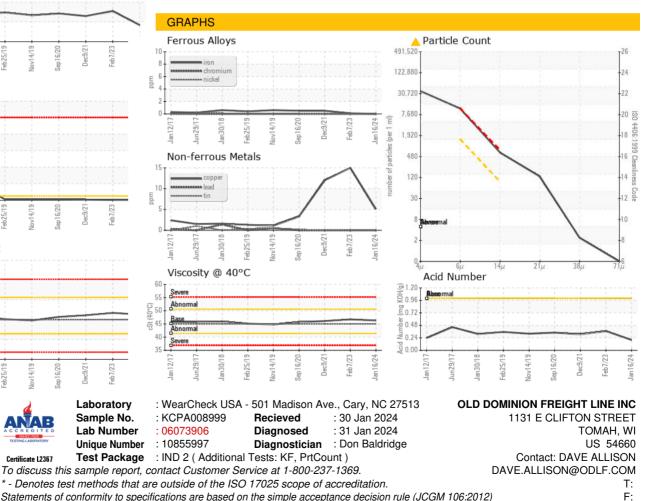






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	46.3	46.7	46.1
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				•		

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)