

### **OIL ANALYSIS REPORT**

# KAESER SFC 45S 6103048 (S/N 1040)

Compressor

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

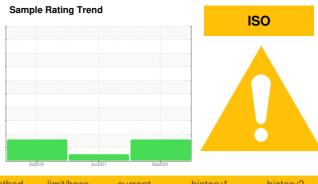
All component wear rates are normal.

#### Contamination

There is a 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		KCPA015454	KCP42331	KCP13018
Sample Date		Client Info		22 Mar 2024	29 Jun 2021	19 Oct 2018
Machine Age	hrs	Client Info		16030	9579	3053
Oil Age	hrs	Client Info		3400	3248	3053
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	2
Lead	ppm	ASTM D5185m	>10	_ <1	0	0
Copper	ppm	ASTM D5185m		10	10	10
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m	-		<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	ppin	method	line it /le e e e			
			limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	<1	2	10
Calcium	ppm		0	3	0	0
Phosphorus	ppm	ASTM D5185m	0	<1	2	0
Zinc	ppm		0	13	0	11
Sulfur	ppm	ASTM D5185m	23500	20782	19304	16125
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	1
Sodium	ppm	ASTM D5185m		0	<1	6
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water	%	ASTM D6304	>0.05	0.008	0.009	0.008
ppm Water	ppm	ASTM D6304	>500	87	98.5	80
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		11127	268	33618
Particles >6µm		ASTM D7647	>1300	<b>4028</b>	73	<b>1</b> 1178
Particles >14µm		ASTM D7647	>80	<b>462</b>	4	<b>1</b> 405
Particles >21µm		ASTM D7647	>20	<u> </u>	1	<b>A</b> 398
Particles >38µm		ASTM D7647	>4	4	0	<b>1</b> 3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 21/19/16	13/9	<b>2</b> 1/18

Acid Number (AN) mg KOH/g

Report Id: EMPBELIL [WUSCAR] 06131419 (Generated: 04/01/2024 15:30:01) Rev: 1

mg KOH/g ASTM D8045 1.0

0.55 0.541 0.391

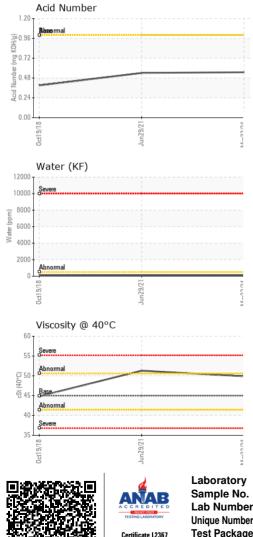
Contact/Location: W. STRADER - EMPBELIL



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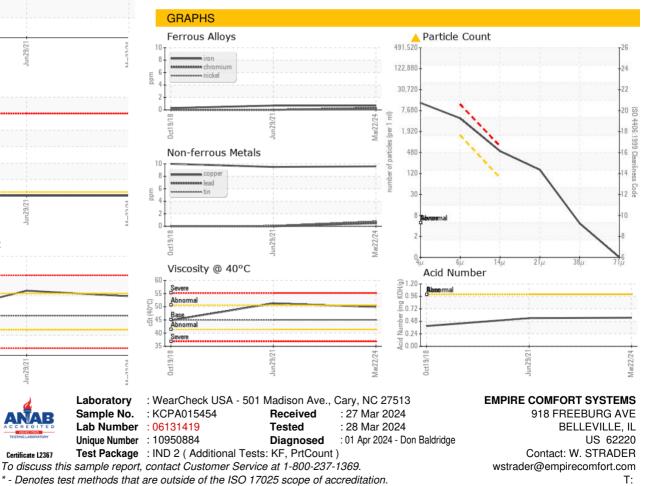
35k T		
30k - 4µm		
25k 5μm 25k 14μm 20k 14μm		
20k		
5 15k	·	
TOTAL STREET, SAME		- Statement and a statement of the state
5k -		and a state of the local division in the
0k	and a second sec	
81/6	3/2	200
0ct19/18	Jun 29/21	₽ <i>UCC</i> refM
0		5





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	LIGHT	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	49.9	51.3	44.85
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom



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

Contact/Location: W. STRADER - EMPBELIL

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