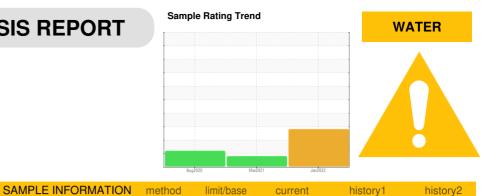


# **OIL ANALYSIS REPORT**



# 7352685 (S/N 1114) Component

Compressor KAESER SIGMA (OEM) FG-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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

Appearance is hazy. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

## Fluid Condition

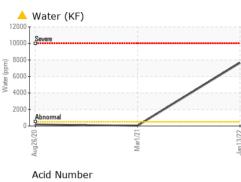
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

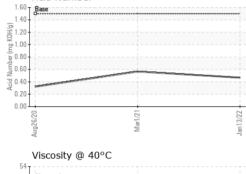
0.000 22 0.000		method	initia base	Guirein	matory	matoryz
Sample Number		Client Info		KC73030	KC93011	KC66814
Sample Date		Client Info		13 Jan 2022	01 Mar 2021	26 Aug 2020
Machine Age	hrs	Client Info		6379	5369	2470
Oil Age	hrs	Client Info		4360	2899	2470
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8	<1	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	7
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	24	▲ 75	12
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m		<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	5
Barium	ppm	ASTM D5185m		<1	0	5
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		4	0	34
Calcium	ppm	ASTM D5185m		2	0	0
Phosphorus	ppm	ASTM D5185m	500	325	199	8
Zinc	ppm	ASTM D5185m		443	235	20
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	4
Sodium	ppm	ASTM D5185m		18	<1	10
Potassium	ppm	ASTM D5185m	>20	8	0	8
Water	%	ASTM D6304	>0.05	<b>A</b> 0.764	0.003	0.019
ppm Water	ppm	ASTM D6304	>500	<b>A</b> 7640	31.1	195.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			2176	6906
Particles >6µm		ASTM D7647	>1300		880	<b>2</b> 330
Particles >14µm		ASTM D7647	>80		79	<b>1</b> 40
Particles >21µm		ASTM D7647	>20		18	▲ 32
Particles >38µm		ASTM D7647	>4		0	2
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13		17/13	▲ 18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	0.467	0.565	0.321

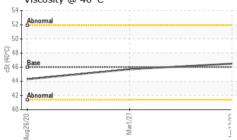
Contact/Location: Service Manager - PIECLE



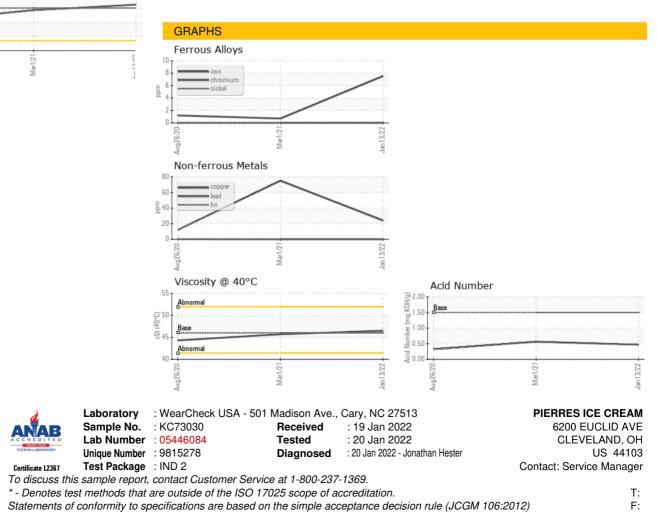
# **OIL ANALYSIS REPORT**







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	A MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	A HAZY	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	46.5	45.7	44.3
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					J	
Bottom						



Contact/Location: Service Manager - PIECLE