

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



Machine Id 7402412 (S/N 1582) Component Compressor

KAESER SIGMA (OEM) S-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 moderate amount of particulates present in the oil.

#### Fluid Condition

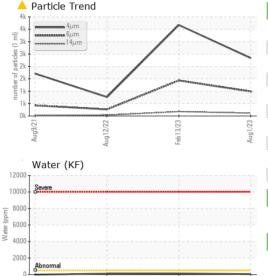
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample NumberClient InfoKC100280KC105997Sample DateClient Info01 Aug 202313 Feb 2023	KC101543
Sample Date Client Info 01 Aug 2023 13 Feb 2023	
	3 12 Aug 2022
Machine Age hrs Client Info 7461 6091	4756
Oil Age hrs Client Info 0 1335	0
Oil Changed Client Info N/A Not Changd	Changed
Sample Status ATTENTION ABNORMAL	L NORMAL
WEAR METALS method limit/base current history1	history2
Iron ppm ASTM D5185m >50 0 0	0
<b>Chromium</b> ppm ASTM D5185m >10 <b>0</b> 0	0
Nickel ppm ASTM D5185m >3 0 0	0
Titanium ppm ASTM D5185m >3 0 0	0
Silver ppm ASTM D5185m >2 0 0	0
Aluminum ppm ASTM D5185m >10 1 <1	<1
Lead ppm ASTM D5185m >10 0 0	0
Copper ppm ASTM D5185m >50 7 5	8
Tin ppm ASTM D5185m >10 0 0	0
Antimony ppm ASTM D5185m	
Vanadium ppm ASTM D5185m 0 <1	0
Cadmium ppm ASTM D5185m 0 0	0
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185m <b>0</b> 0	0
Barium ppm ASTM D5185m 90 0 15	<1
Molybdenum ppm ASTM D5185m 0 0	0
Manganese ppm ASTM D5185m 0 <1	0
Magnesium ppm ASTM D5185m 90 5 46	10
Calcium ppm ASTM D5185m 2 0 <1	0
Phosphorus ppm ASTM D5185m 12 0	2
Zinc ppm ASTM D5185m 0 6	11
CONTAMINANTS method limit/base current history1	history2
Silicon ppm ASTM D5185m >25 <1 1	<1
Sodium ppm ASTM D5185m 3 16	4
Potassium ppm ASTM D5185m >20 <1	0
Water % ASTM D6304 >0.05 0.005 0.013	0.011
ppm Water ppm ASTM D6304 >500 59 136.6	117.4
FLUID CLEANLINESS method limit/base current history1	history2
Particles >4μm ASTM D7647 2338 3672	762
Particles >6μm ASTM D7647 >1300 991 ▲ 1433	266
Particles >14μm ASTM D7647 >80 ▲ 116 ▲ 178	37
Particles >21μm ASTM D7647 >20 ▲ 31 ▲ 30	8
Particles >38μm ASTM D7647 >4 1 1	0
Particles >71μm ASTM D7647 >3 0 0	0
Oil Cleanliness ISO 4406 (c) >/17/13 🔺 18/17/14 🔺 19/18/15	17/15/12
FLUID DEGRADATION method limit/base current history1	history2

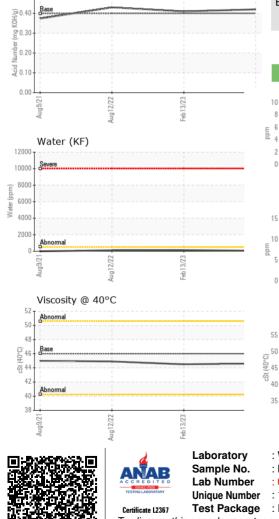
Contact/Location: J. BUTNER - KLIIND



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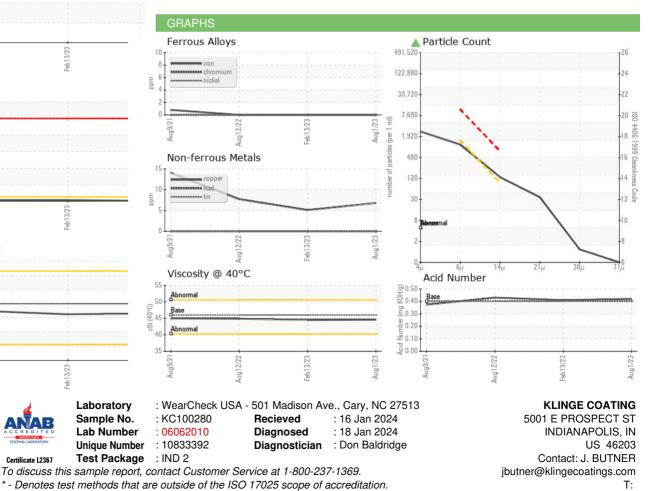






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	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	46	44.6	44.5	44.9
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				a.		

Bottom



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

Contact/Location: J. BUTNER - KLIIND

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