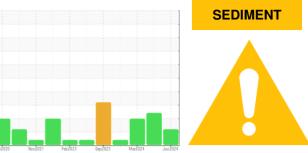


## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



Built for a lifetime."

### Area [2405-0552] 6665019 (S/N 1037)

Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. 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

Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample.

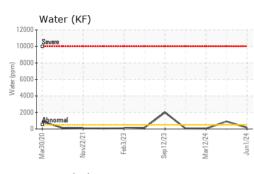
#### Fluid Condition

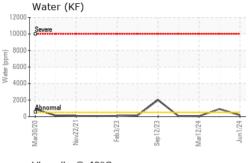
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

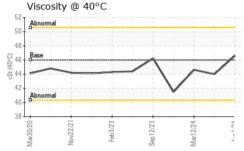
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KC06212474	KC102230	KC111841
Sample Date		Client Info		01 Jun 2024	01 Jun 2024	12 Mar 2024
Machine Age	hrs	Client Info		14222	14222	13543
Oil Age	hrs	Client Info		0	620	3854
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	nom	ASTM D5185m	>50	1	3	0
Chromium	ppm	ASTM D5185m		0	0	<1
Nickel	ppm	ASTM D5185m	>3	0	0	<1
	ppm			ں <1	<1	0
Titanium Silver	ppm	ASTM D5185m	>3 >2		0	0
	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	6	9	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		10	16	7
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	<1	2	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	14	6	<1
Calcium	ppm	ASTM D5185m	2	0	1	0
Phosphorus	ppm	ASTM D5185m		2	1	0
Zinc	ppm	ASTM D5185m		67	56	33
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		30	21	5
Potassium	ppm	ASTM D5185m	>20	4	3	2
Water	%	ASTM D6304	>0.05	0.015	▲ 0.092	0.004
ppm Water	ppm	ASTM D6304	>500	160	<b>9</b> 20	41
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647				9932
Particles >6µm		ASTM D7647	>1300			<b>A</b> 2879
Particles >14µm		ASTM D7647	>80			<b>2</b> 71
Particles >21µm		ASTM D7647	>20			<b>9</b> 8
Particles >38µm		ASTM D7647	>4			<b>1</b> 1
Particles >71µm		ASTM D7647	>3			1
Oil Cleanliness		ISO 4406 (c)	>/17/13			▲ 20/19/15
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.28	0.31	0.49
			5	0.20	0.01	00



# **OIL ANALYSIS REPORT**





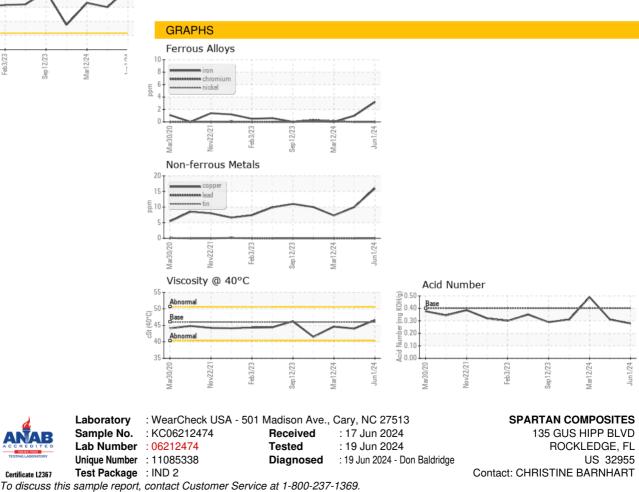


VISUAL limit/base method current history1 history2 NONE NONE White Metal \*Visual NONE NONE scalar Yellow Metal \*Visual NONE NONE NONE NONE scalar Precipitate NONE NONE scalar \*Visual NONE NONE Silt scalar \*Visual NONE MODER MODER NONE Debris \*Visual NONE MODER NONE LIGHT scalar Sand/Dirt NONE NONE NONE scalar \*Visual NONE NORML NORML NORML Appearance scalar \*Visual NORML Odor \*Visual NORML NORML NORML NORML scalar **Emulsified Water** scalar \*Visual >0.05 NEG 0.2% NEG Free Water scalar \*Visual NEG NEG NEG FLUID PROPERTIES method limit/base curren history history2 Visc @ 40°C cSt ASTM D445 46 46.6 44.0 44.6 SAMPLE IMAGES method limit/base historv1 historv2 current

Color



Bottom



Test Package : IND 2 Certificate 12367 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Report Id: SPAROCKC [WUSCAR] 06212474 (Generated: 06/21/2024 21:05:06) Rev: 1

Contact/Location: CHRISTINE BARNHART - SPAROCKC

T:

F: