

## **OIL ANALYSIS REPORT**

Machine Id KAESER SK 19 1421419 (S/N 0185361)

Component Compressor Fluid

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

### DIAGNOSIS

#### A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

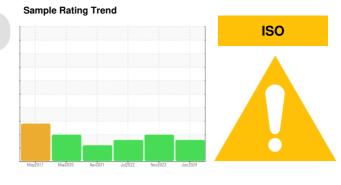
All component wear rates are normal.

### 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.

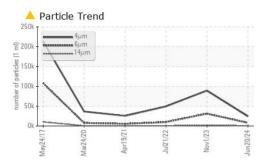


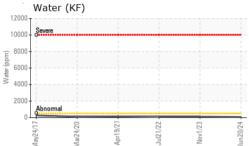
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA019195	KCPA009132	KCP38109
Sample Date		Client Info		20 Jun 2024	01 Nov 2023	21 Jul 2022
Machine Age	hrs	Client Info		31666	463	460
Oil Age	hrs	Client Info		3000	0	200
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	4	4
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m		3	0	<1
Lead	ppm	ASTM D5185m	>10	۰ <1	0	<1
Copper	ppm	ASTM D5185m		8	4	6
Tin	ppm	ASTM D5185m		<1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
	ppill				-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	1	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	2	3
Magnesium	ppm	ASTM D5185m	100	2	12	18
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	6	0	4
Zinc	ppm	ASTM D5185m	0	1	60	78
Sulfur	ppm	ASTM D5185m	23500	24355	19236	21760
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	4	1
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water	%	ASTM D6304	>0.05	0.006	0.011	0.008
ppm Water	ppm	ASTM D6304	>500	64	115	89.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		24500	89394	49594
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>A</b> 31103	▲ 9956
Particles >14µm		ASTM D7647	>80	<b>A</b> 349	<b>1</b> 746	<b>4</b> 92
Particles >21µm		ASTM D7647	>20	<u> </u>	<b>A</b> 316	<u> </u>
Particles >38µm		ASTM D7647	>4	1	<u> </u>	1
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 22/20/16	<b>4</b> /22/18	▲ 23/20/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.44	0.45	0.44
107.EQ Dour 1	0 0			Contract/	anation. LLL	

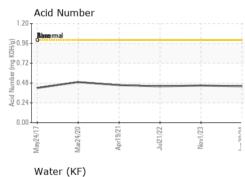
Report Id: IVIGRE [WUSCAR] 06218786 (Generated: 06/26/2024 15:37:58) Rev: 1

Contact/Location: J. LUEDTKE - IVIGRE

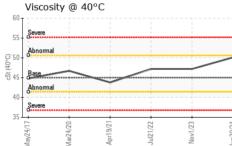






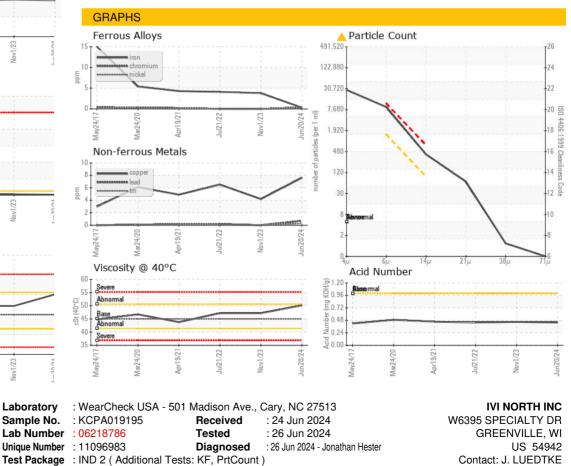






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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	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	50.1	47.2	47.2
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					•	
Bottom						



To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

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Certificate 12367

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