

### **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

# 8542939 (S/N 1417)

Component Compressor Fluid KAESER SIGMA (OEM) M-460 (--- QTS)

#### 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.

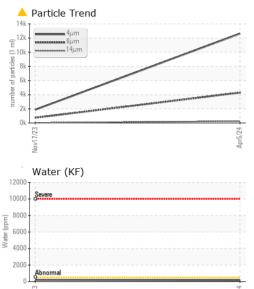
#### Fluid Condition

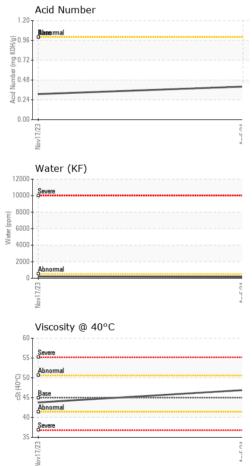
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016380	KCPA010703	
Sample Date		Client Info		05 Apr 2024	17 Nov 2023	
Machine Age	hrs	Client Info		6339	3692	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>3	<1	<1	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	2	<1	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>50	4	4	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	53	18	
Molybdenum	ppm	ASTM D5185m	0	<1	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	100	67	52	
Calcium	ppm	ASTM D5185m	0	6	2	
Phosphorus	ppm	ASTM D5185m	0	0	5	
Zinc	ppm	ASTM D5185m	0	4	1	
Sulfur	ppm	ASTM D5185m	23500	22897	19418	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	<1	
Sodium	ppm	ASTM D5185m		9	11	
Potassium	ppm	ASTM D5185m	>20	6	11	
Water	%	ASTM D6304	>0.05	0.015	0.020	
ppm Water	ppm	ASTM D6304	>500	159	209	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		12615	1873	
Particles >6µm		ASTM D7647	>1300	<u> </u>	738	
Particles >14µm		ASTM D7647	>80	<b>A</b> 255	23	
Particles >21µm		ASTM D7647	>20	<mark>/</mark> 78	3	
Particles >38µm		ASTM D7647	>4	<u> </u>	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 21/19/15	18/17/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.31	

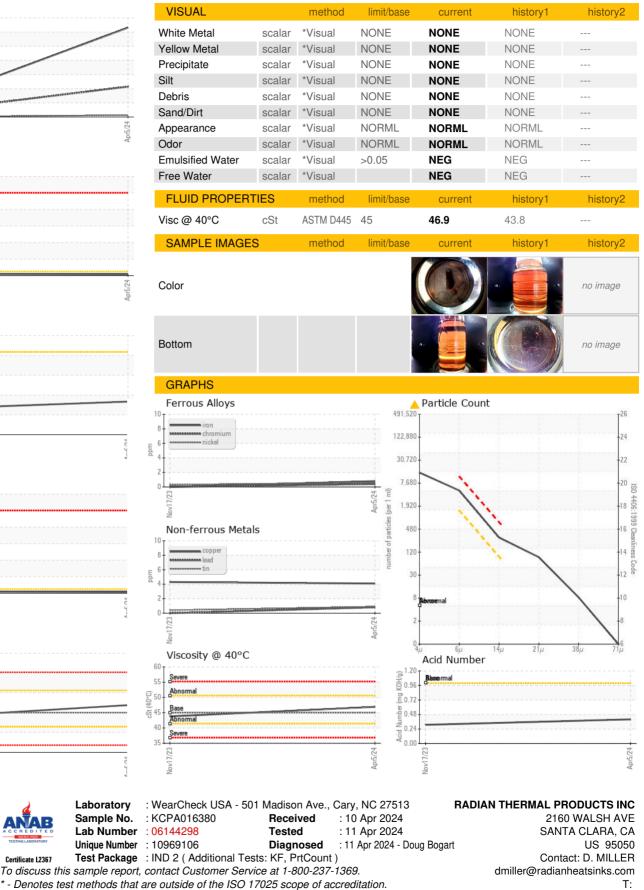


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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate 12367

Contact/Location: D. MILLER - RADSAN Page 2 of 2

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