

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id

KAESER SM 15 6427836 (S/N 1001)

Component Compressor

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

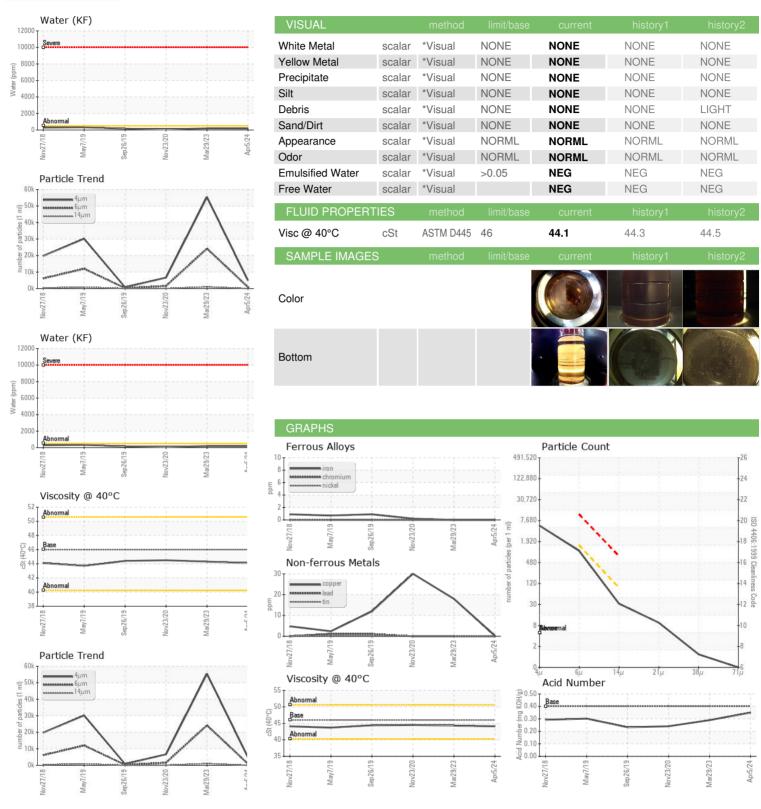
Fluid Condition

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

		Nov2018	May2019 Sep2019	Nov2020 Mar2023	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC130517	KC110647	KC93665
Sample Date		Client Info		05 Apr 2024	29 Mar 2023	23 Nov 2020
Machine Age	hrs	Client Info		16504	15787	10598
Oil Age	hrs	Client Info		500	1225	7305
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<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	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	18	30
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	10
Barium	ppm	ASTM D5185m	90	3	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	90	66	42	9
Calcium	ppm	ASTM D5185m	2	2	0	0
Phosphorus	ppm	ASTM D5185m		0	<1	1
Zinc	ppm	ASTM D5185m		0	22	7
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	0
Sodium	ppm	ASTM D5185m		16	17	7
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.05	0.018	0.019	0.007
ppm Water	ppm	ASTM D6304	>500	184	199.9	71.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4805	55385	6662
Particles >6µm		ASTM D7647	>1300	909	<u>^</u> 24177	<u> </u>
Particles >14μm		ASTM D7647	>80	28	<u> </u>	98
Particles >21µm		ASTM D7647	>20	8	△ 59	22
Particles >38μm		ASTM D7647	>4	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/17/12	<u>△</u> 23/22/17	18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.35	0.29	0.241



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Laboratory

: KC130517 Lab Number : 06145877 Unique Number : 10975955

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Apr 2024

Tested : 12 Apr 2024 Diagnosed

: 15 Apr 2024 - Don Baldridge

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)

T: F:

UPSTATE GRANITE SOLUTIONS

GREENVILLE, SC

Contact: Service Manager

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