

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER SM 11 2626242 (S/N 1227)

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. 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

There is a moderate amount of visible silt present in the sample.

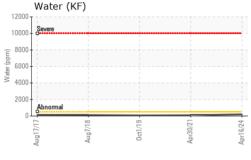
Fluid Condition

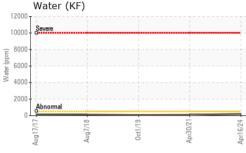
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

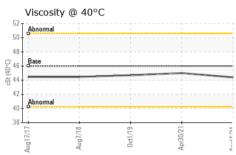
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA012683	KCP33098	KCP22543
Sample Date		Client Info		16 Apr 2024	30 Apr 2021	01 Oct 2019
Machine Age	hrs	Client Info		36411	32058	30080
Oil Age	hrs	Client Info		1370	0	5500
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	6	1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	4	10	16
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m			<1	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	10	0
Barium	ppm	ASTM D5185m	90	5	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	90	57	19	3
Calcium	ppm	ASTM D5185m	2	1	0	0
Phosphorus	ppm	ASTM D5185m		0	4	<1
Zinc	ppm	ASTM D5185m		3	1	0
Sulfur	ppm	ASTM D5185m		23166	16250	13674
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		14	10	2
Potassium	ppm	ASTM D5185m	>20	4	<1	<1
Water	%	ASTM D6304	>0.05	0.020	0.009	0.006
ppm Water	ppm	ASTM D6304	>500	209	90.1	69.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647				2928
Particles >6µm		ASTM D7647	>1300			534
Particles >14μm		ASTM D7647	>80			69
Particles >21µm		ASTM D7647	>20			29
Particles >38μm		ASTM D7647	>4			4
Particles >71µm		ASTM D7647	>3			0
Oil Cleanliness		ISO 4406 (c)	>/17/13			16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

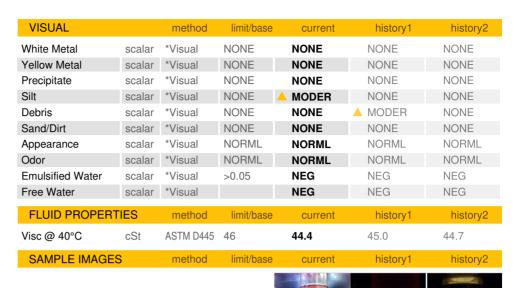


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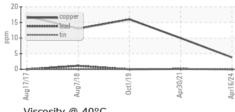


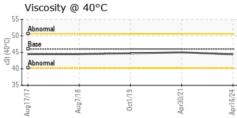
GRAPHS

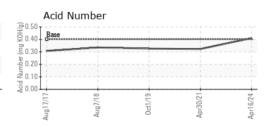
Color

Bottom

Ferrous Alloys Non-ferrous Metals











Certificate 12367

Sample No.

Laboratory

Lab Number : 06160946 Unique Number : 10996369

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA012683

Received Tested Diagnosed

: 25 Apr 2024 : 29 Apr 2024

: 29 Apr 2024 - Don Baldridge Test Package : IND 2 (Additional Tests: KF, PrtCount)

US 66203 Contact: AARON KRUSE aaron.kruse@shawnee-steel.com

SHAWNEE STEEL

6124 MERRIAM DR

MERRIAM, KS

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