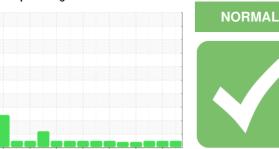


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER CSD 100 4891621 (S/N 1155)

Component Compressor

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

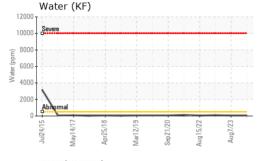
Fluid Condition

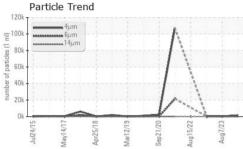
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

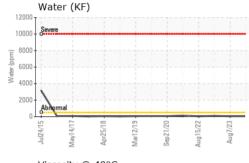
		Jul2015 M	ay2017 Apr2018 Ma	2019 Sep2020 Aug2022	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	17.111011		IIIIIIIIIII		•	
Sample Number Sample Date		Client Info		KCP35509 02 Apr 2024	KCPA002702 07 Aug 2023	KCPA001414 15 Mar 2023
Machine Age	hrs	Client Info		02 Apr 2024 67995	63707	60287
Oil Age	hrs	Client Info		0/995	0	0
Oil Changed	1113	Client Info		Changed	N/A	N/A
Sample Status		Ollerit IIIIO		NORMAL	NORMAL	NORMAL
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	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	7	7
Tin	ppm	ASTM D5185m	>10	0	0	<1
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	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	0	2	<1
Calcium	ppm	ASTM D5185m	2	0	1	0
Phosphorus	ppm	ASTM D5185m		0	0	14
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		15879	17251	12825
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	0
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	0.004	0.004	0.009
ppm Water	ppm	ASTM D6304	>500	50	49.4	99.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1519	394	848
Particles >6µm		ASTM D7647	>1300	158	186	297
Particles >14μm		ASTM D7647	>80	8	30	20
Particles >21µm		ASTM D7647	>20	3	11	4
Particles >38μm		ASTM D7647	>4	0	2	0
Particles >71μm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>17/13	14/10	15/12	17/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.25	0.31	0.34

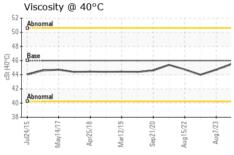


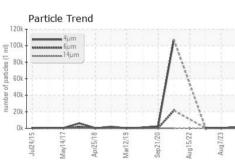
OIL ANALYSIS REPORT

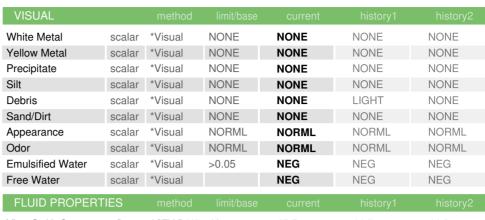










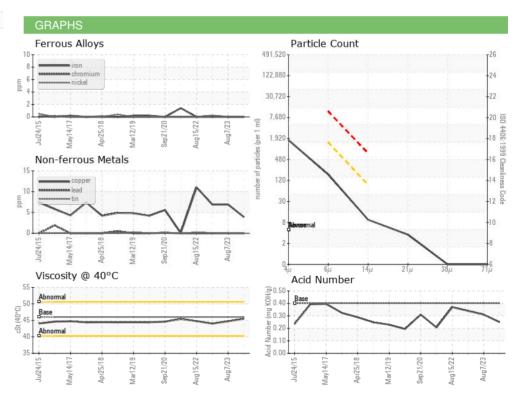


CAMBLEIMAGE						
Visc @ 40°C	cSt	ASTM D445	46	45.5	44.7	44.0

Color











Report Id: MAHRUS [WUSCAR] 06161444 (Generated: 05/01/2024 07:31:41) Rev: 1

Lab Number

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP35509

Received **Tested** : 06161444 Unique Number: 10996867 Diagnosed

: 26 Apr 2024 : 29 Apr 2024 : 30 Apr 2024 - Don Baldridge

2301 E 16TH ST RUSSELLVILLE, AR US 72802

MAHLE ENGINE COMPONENTS

Contact:

T:

F:

Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate 12367 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)

Contact/Location: ? ? - MAHRUS