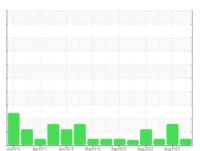


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

KAESER CSD 100 4878914 (S/N 1154)

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.

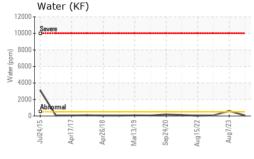
Fluid Condition

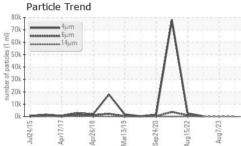
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

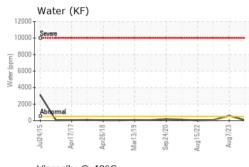
		Jul2015 A	pr2017 Apr2018 Mai	2019 Sep2020 Aug2022 /	ug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017151	KCPA002691	KCPA001369
Sample Date		Client Info		01 Apr 2024	07 Aug 2023	14 Mar 2023
Machine Age	hrs	Client Info		68674	64205	60726
Oil Age	hrs	Client Info		7948	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	ABNORMAL	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	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	2	8	6
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	<1	0
Magnesium	ppm	ASTM D5185m	90	0	2	2
Calcium	ppm	ASTM D5185m	2	0	2	6
Phosphorus	ppm	ASTM D5185m		0	0	18
Zinc	ppm	ASTM D5185m		0	0	2
Sulfur	ppm	ASTM D5185m		15292	13899	11975
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		1	6	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.05	0.005	<u> </u>	0.006
ppm Water	ppm	ASTM D6304	>500	59	▲ 601.9	68.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		356		364
Particles >6µm		ASTM D7647	>1300	68		115
Particles >14µm		ASTM D7647	>80	6		17
Particles >21µm		ASTM D7647	>20	3		4
Particles >38µm		ASTM D7647	>4	0		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>17/13	13/10		16/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.23	0.26	0.35

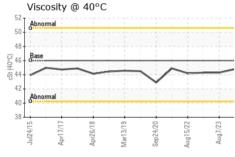


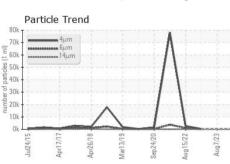
OIL ANALYSIS REPORT

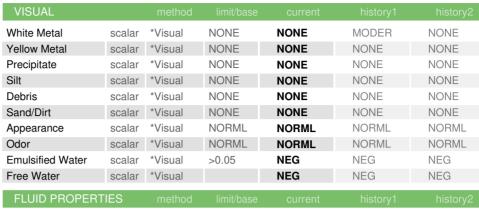












I LOID I HOI LITT	ILO					
Visc @ 40°C	cSt	ASTM D445	46	44.8	44.3	44.3

SAIVII LL IIVIAGLS	method	
Color		
00101		





GRAPHS Ferrous Alloys Particle Count 491 520 122,880 30,720 7,680 1,920 Non-ferrous Metals 480 120 Viscosity @ 40°C Acid Number (B) 0.50 W 0.40 50 Ē 0.30 흗 0.20 ₹ 0.10 00.00 PG Aug7/23





Lab Number

Laboratory Sample No.

: KCPA017151 : 06161443 Unique Number : 10996866

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Apr 2024

Tested Diagnosed

: 29 Apr 2024 : 30 Apr 2024 - Don Baldridge MAHLE ENGINE COMPONENTS

2301 E 16TH ST RUSSELLVILLE, AR US 72802

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)

Report Id: MAHRUS [WUSCAR] 06161443 (Generated: 04/30/2024 13:31:21) Rev: 1

Contact/Location: ? ? - MAHRUS