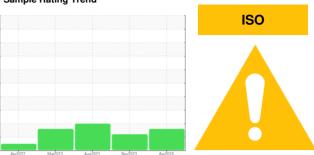


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER 6727331

Component Compressor

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

DIAGNOSIS

Recommendation

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.

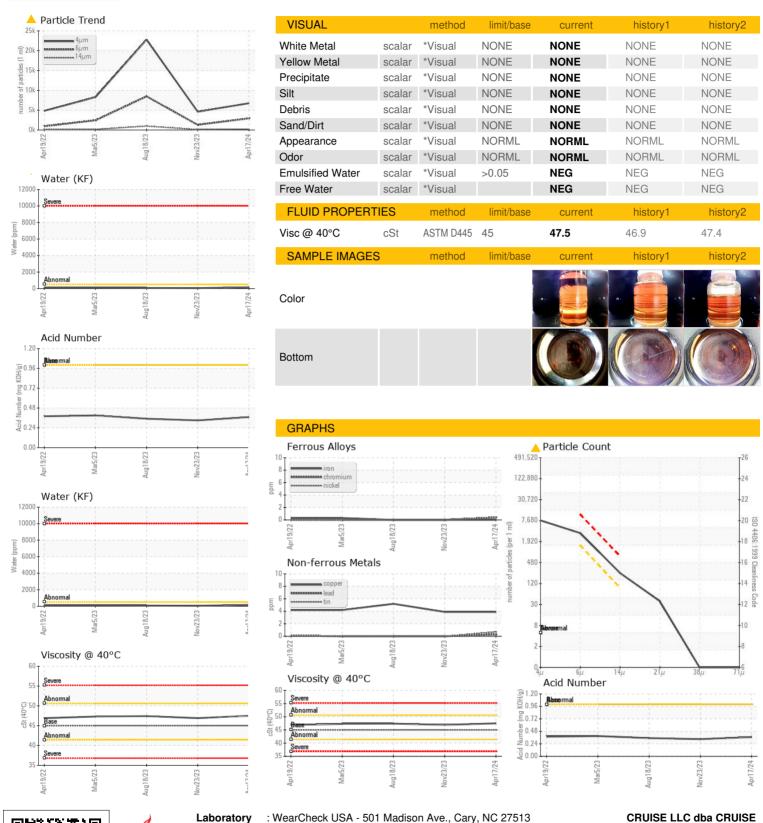
Fluid Condition

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

		Apr2022	Mar2023	Aug2023 Nov2023	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015304	KCPA010071	KCPA003605
Sample Date		Client Info		17 Apr 2024	23 Nov 2023	18 Aug 2023
Machine Age	hrs	Client Info		44811	41245	38990
Oil Age	hrs	Client Info		2638	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	4	4	5
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	7	4	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	31	30	14
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	0	0	1
Zinc	ppm	ASTM D5185m	0	4	19	0
Sulfur	ppm	ASTM D5185m	23500	22130	19114	23538
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	10
Sodium	ppm	ASTM D5185m		6	7	5
Potassium	ppm	ASTM D5185m	>20	3	<1	0
Water	%	ASTM D6304	>0.05	0.015	0.005	0.007
ppm Water	ppm	ASTM D6304	>500	157	60	77.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6756	4601	22769
Particles >6µm		ASTM D7647	>1300	2930	1289	<u>▲</u> 8478
Particles >14µm		ASTM D7647	>80	<u> </u>	99	4 979
Particles >21µm		ASTM D7647	>20	33	25	<u>^</u> 281
Particles >38μm		ASTM D7647	>4	0	0	▲ 13
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/19/15	19/17/14	<u>22/20/17</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.37	0.33	0.35



OIL ANALYSIS REPORT







Report Id: CRUSAN [WUSCAR] 06156948 (Generated: 04/24/2024 18:01:50) Rev: 1

Laboratory Sample No.

Lab Number : 06156948 Unique Number: 10992371

: KCPA015304

Received **Tested** Diagnosed

: 22 Apr 2024 : 24 Apr 2024 : 24 Apr 2024 - Angela Borella

1201 BRYANT ST SAN FRANCISCO, CA US 94103 Contact: DYLAN EHRENBERGER

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.

DYLAN.EHRENBERGER@GETCRUISE.COM T:

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

Contact/Location: DYLAN EHRENBERGER - CRUSAN

F: