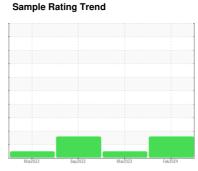


OIL ANALYSIS REPORT

Machine Id KAESER AS 20 8008794 (S/N 1337)

Compressor

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





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.

		Mar202	2 Sep2022	Mar2023 Fel	52024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA014746	KCPA001496	KCP49340
Sample Date		Client Info		22 Feb 2024	23 Mar 2023	20 Sep 2022
Machine Age	hrs	Client Info		4546	3023	2386
Oil Age	hrs	Client Info		3500	0	1300
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	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	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	5	9	20
Tin	ppm	ASTM D5185m	>10	0	0	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	0	0
Barium	ppm	ASTM D5185m	90	9	7	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	1	29	3
Calcium	ppm	ASTM D5185m	0	<1	<1	0
Phosphorus	ppm	ASTM D5185m	0	23	1	12
Zinc	ppm	ASTM D5185m	0	0	16	20
Sulfur	ppm	ASTM D5185m	23500	16378	21124	20137
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	1
Sodium	ppm	ASTM D5185m		0	13	3
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304	>0.05	0.004	0.019	0.018
ppm Water	ppm	ASTM D6304	>500	47	198.4	185.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		38334	1628	96285
Particles >6µm		ASTM D7647	>1300	<u> </u>	402	<u>\$\text{28269}\$</u>
Particles >14µm		ASTM D7647	>80	657	12	<u></u> 958
Particles >21µm		ASTM D7647	>20	<u> </u>	1	<u>^</u> 70
Particles >38µm		ASTM D7647	>4	3	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/21/17</u>	18/16/11	<u>4</u> 24/22/17
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma 1/011/a	ACTM DOOM	1.0	0.40	n 39	0.41

Acid Number (AN)

mg KOH/g ASTM D8045 1.0

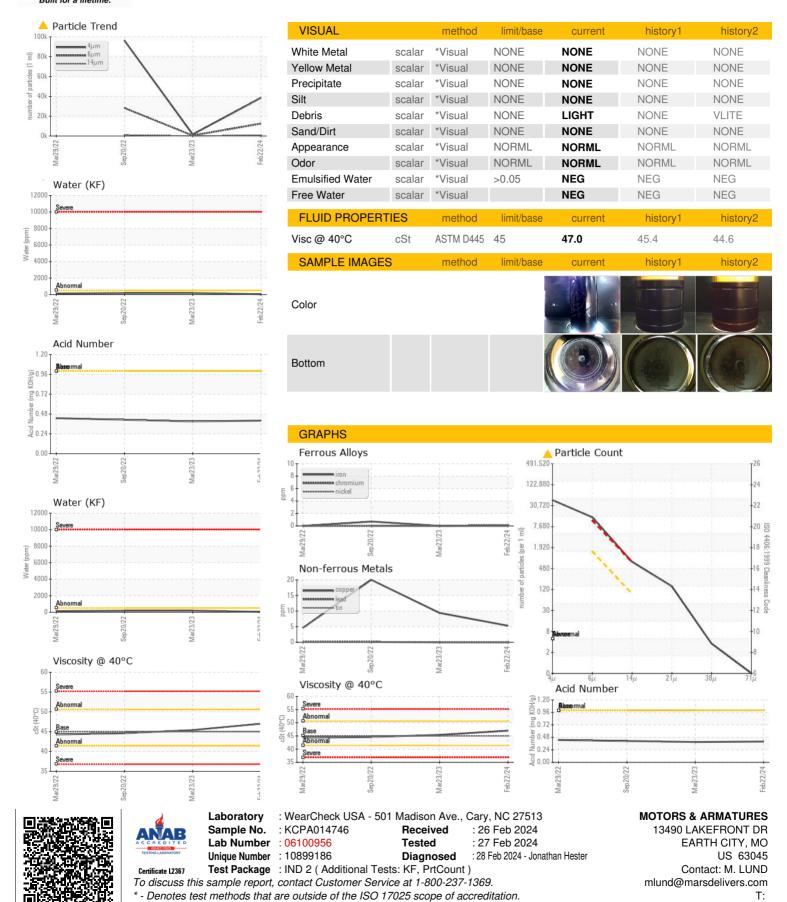
0.39

0.40

0.41



OIL ANALYSIS REPORT



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

F: