

OIL ANALYSIS REPORT



WATER



KAESER 4357599

Component

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

		_	0ct2023	Mar2024	·	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013592	KCPA000503	
Sample Date		Client Info		14 Mar 2024	20 Oct 2023	
Machine Age	hrs	Client Info		66794	63293	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	0	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>3	<1	0	
Titanium	ppm	ASTM D5185m	>3	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	<1	3	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	8	14	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	2	0	
Molybdenum	ppm	ASTM D5185m	0	3	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m	100	13	<1	
Calcium	ppm	ASTM D5185m	0	<1	0	
Phosphorus	ppm	ASTM D5185m	0	3	0	
Zinc	ppm	ASTM D5185m	0	11	14	
Sulfur	ppm	ASTM D5185m	23500	21157	19430	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	
Sodium	ppm	ASTM D5185m		3	0	
Potassium	ppm	ASTM D5185m	>20	0	1	
Water	%	ASTM D6304	>0.05	<u>^</u> 0.215	△ 0.247	
ppm Water	ppm	ASTM D6304	>500	<u>^</u> 2150	<u>4</u> 2470	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3871		
Particles >6µm		ASTM D7647	>1300	<u>^</u> 2109		
Particles >14µm		ASTM D7647	>80	4 359		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38μm		ASTM D7647	>4	<u> </u>		
Particles >71µm		ASTM D7647	>3	<u>^</u> 2		
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/18/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

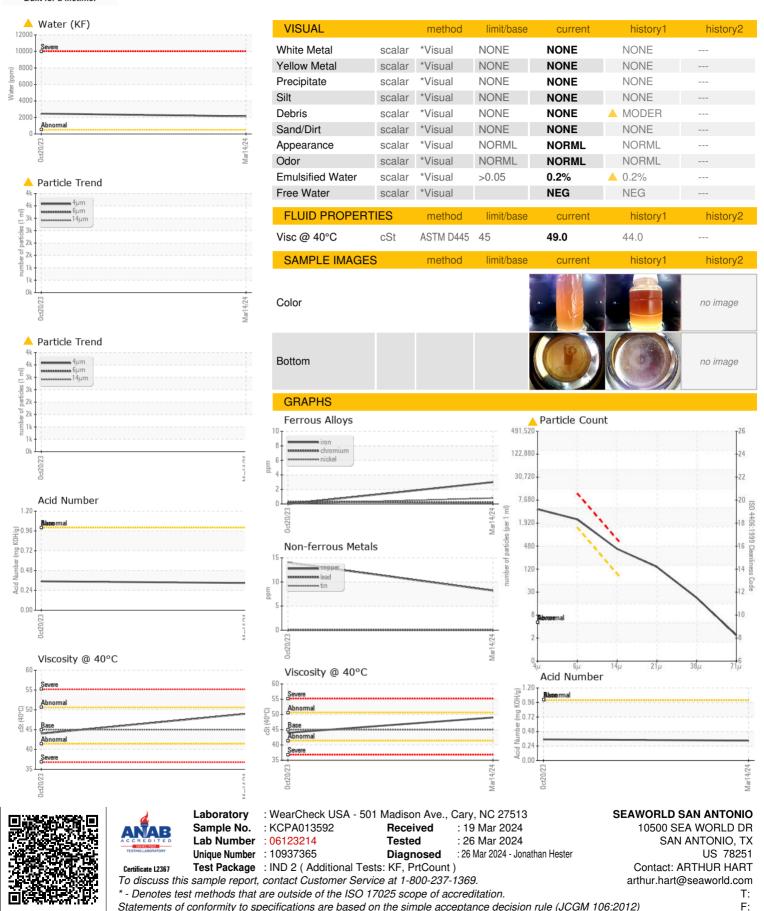
mg KOH/g ASTM D8045 1.0

0.35

0.33



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