

OIL ANALYSIS REPORT

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Sample Rating Trend

ISO

8386517 (S/N 1617)

Component

Compressor

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

DIAGNOSIS

Recommendation

The 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.

			May2023	Jan2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA011184	KCPA001899	
Sample Date		Client Info		04 Jan 2024	08 May 2023	
Machine Age	hrs	Client Info		8429	4847	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>3	0	<1	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	2	1	
Lead	ppm	ASTM D5185m	>10	0	<1	
Copper	ppm	ASTM D5185m	>50	16	13	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m	90	0	14	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	90	4	43	
Calcium	ppm	ASTM D5185m	2	0	<1	
Phosphorus	ppm	ASTM D5185m		22	5	
Zinc	ppm	ASTM D5185m		0	7	
Sulfur	ppm	ASTM D5185m		17246	21816	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	
Sodium	ppm	ASTM D5185m		0	18	
Potassium	ppm	ASTM D5185m	>20	1	5	
Water	%	ASTM D6304	>0.05	0.007	0.014	
ppm Water	ppm	ASTM D6304	>500	74	146.1	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		5487	164614	
Particles >6µm		ASTM D7647	>1300	<u>^</u> 2183	68627	
Particles >14μm		ASTM D7647	>80	<u>^</u> 292	3753	
Particles >21µm		ASTM D7647	>20	<u> </u>	• 763	
Particles >38µm		ASTM D7647	>4	<u>^</u> 6	6 3	
Particles >71µm		ASTM D7647	>3	2	2	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/18/15	2 5/23/19	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM DR045	0.4	0.31	0.41	

Acid Number (AN)

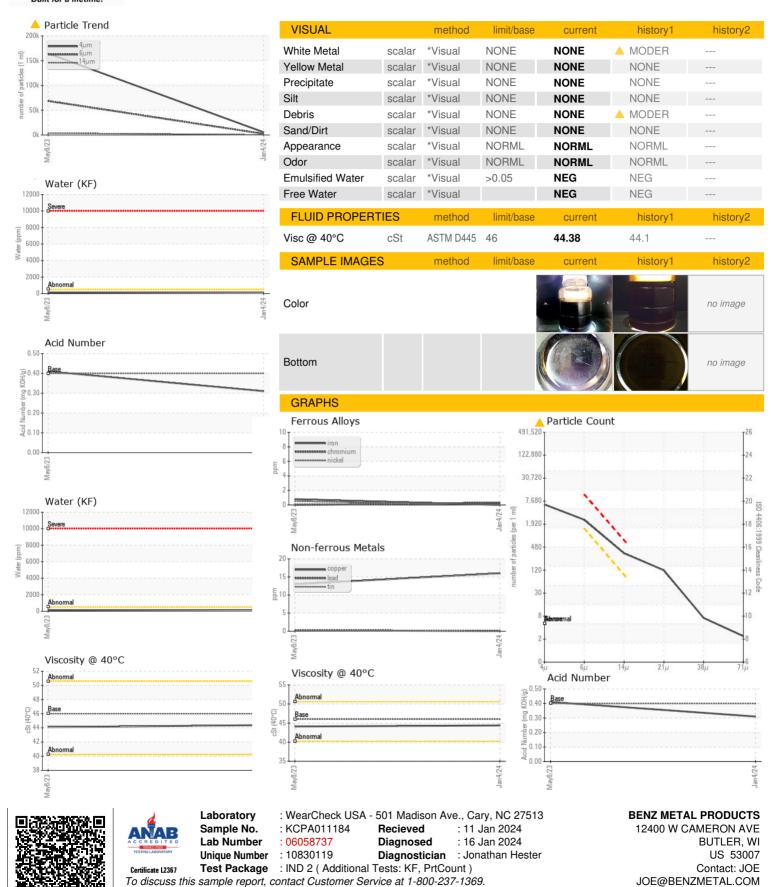
mg KOH/g ASTM D8045 0.4

0.41

0.31



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* - 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)

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