

OIL ANALYSIS REPORT



NORMAL



7012839 (S/N 1024)

Component

Compressor

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

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 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 acceptable for the time in service.

	Apr2023 Apr2023 Mar2024					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA014932	KCPA000127	KCP53846
Sample Date		Client Info		15 Mar 2024	19 Apr 2023	14 Apr 2023
Machine Age	hrs	Client Info		24965	19313	19313
Oil Age	hrs	Client Info		3000	0	6000
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
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	<1	0	4
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	2	2	10
Tin	ppm	ASTM D5185m	>10	<1	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	0
Barium	ppm	ASTM D5185m	90	0	4	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	25	53	2
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	0	3	8
Zinc	ppm	ASTM D5185m	0	18	7	0
Sulfur	ppm	ASTM D5185m	23500	22926	22558	15511
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<u>\$\text{2509}\$</u>
Sodium	ppm	ASTM D5185m		8	6	0
Potassium	ppm	ASTM D5185m	>20	2	0	1
Water	%	ASTM D6304	>0.05	0.011	0.016	0.010
ppm Water	ppm	ASTM D6304	>500	115	169.8	109.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		1449	59618	
Particles >6µm		ASTM D7647	>1300	503	<u>4</u> 24195	
Particles >14µm		ASTM D7647	>80	45	<u>\$\text{2135}\$</u>	
Particles >21µm		ASTM D7647	>20	12	<u>^</u> 268	
Particles >38μm		ASTM D7647	>4	1	<u>^</u> 7	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/13	△ 23/22/18	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.43	0.42	▲ 1.43



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