

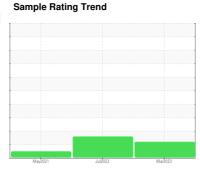
OIL ANALYSIS REPORT

[73268223] 5514514 (S/N 1018)

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 a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

	M _{m/} 2021 Jul2022 M _{m/} 2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KCP55178	KCP48418	KCP33648	
Sample Date		Client Info		01 Mar 2023	24 Jul 2022	12 May 2021	
Machine Age	hrs	Client Info		43340	38790	28995	
Oil Age	hrs	Client Info		5300	10000	4120	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				ATTENTION	ATTENTION	NORMAL	
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	<1	0	0	
Titanium	ppm	ASTM D5185m	>3	<1	0	0	
Silver	ppm	ASTM D5185m	>2	<1	<1	<1	
Aluminum	ppm	ASTM D5185m	>10	0	0	0	
Lead	ppm	ASTM D5185m	>10	0	0	0	
Copper	ppm	ASTM D5185m	>50	8	6	5	
Tin	ppm	ASTM D5185m	>10	0	0	0	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	<1	<1	
Barium	ppm	ASTM D5185m	90	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	0	
Manganese	ppm	ASTM D5185m		1	0	0	
Magnesium	ppm	ASTM D5185m	100	4	0	<1	
Calcium	ppm	ASTM D5185m	0	0	0	0	
Phosphorus	ppm	ASTM D5185m	0	<1	7	0	
Zinc	ppm	ASTM D5185m	0	14	0	33	
Sulfur	ppm	ASTM D5185m	23500	19580	20339	18064	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1	
Sodium	ppm	ASTM D5185m		<1	<1	0	
Potassium	ppm	ASTM D5185m	>20	0	0	0	
Water	%	ASTM D6304	>0.05	0.005	0.010	0.006	
ppm Water	ppm	ASTM D6304	>500	58.3	104.2	62.0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		2486	5508	1740	
Particles >6µm		ASTM D7647	>1300	893	1583	360	
Particles >14µm		ASTM D7647	>80	132	1 48	23	
Particles >21µm		ASTM D7647	>20	49	2 9	5	
Particles >38µm		ASTM D7647	>4	2	3	0	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/17/14	▲ 20/18/14	16/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	



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