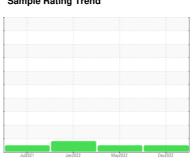


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id KAESER 3462043 (S/N 1053)

Compressor

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

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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 suitable for further service.

		Jul202	Jan 2022	May2022 De	c2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP52665	KCP50988	KCP40891
Sample Date		Client Info		06 Dec 2022	26 May 2022	31 Jan 2022
Machine Age	hrs	Client Info		3042	2861	2800
Oil Age	hrs	Client Info		181	258	196
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	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	<1	<1	1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				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
Barium	ppm	ASTM D5185m	90	11	0	4
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	66	61	72
Calcium	ppm	ASTM D5185m	2	<1	<1	0
Phosphorus	ppm	ASTM D5185m		26	4	0
Zinc	ppm	ASTM D5185m		9	6	4
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m		9 21462	6 19718	4 16347
-	ppm		limit/base	-		
Sulfur	ppm	ASTM D5185m	limit/base	21462	19718	16347
Sulfur CONTAMINANTS	ppm	ASTM D5185m method		21462 current	19718 history1	16347 history2
Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m method ASTM D5185m		21462 current 2	19718 history1 <1	16347 history2 <1
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>25	21462 current 2 17	19718 history1 <1 13	16347 history2 <1 13
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	21462 current 2 17	19718 history1 <1 13 2	16347 history2 <1 13 2
Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>25 >20 >0.05	21462 current 2 17 1 0.030	19718 history1 <1 13 2 0.036	16347 history2 <1 13 2 0.020
Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>25 >20 >0.05 >500 limit/base	21462 current 2 17 1 0.030 309.5	19718 history1 <1 13 2 0.036 368.9	16347 history2 <1 13 2 0.020 200.5
Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>25 >20 >0.05 >500 limit/base	21462 current 2 17 1 0.030 309.5 current	19718 history1 <1 13 2 0.036 368.9 history1	16347 history2 <1 13 2 0.020 200.5 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>25 >20 >0.05 >500 limit/base	21462	19718 history1 <1 13 2 0.036 368.9 history1 3112	16347 history2 <1 13 2 0.020 200.5 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80	21462	19718 history1 <1 13 2 0.036 368.9 history1 3112 768	16347 history2 <1 13 2 0.020 200.5 history2 13543 ▲ 2685
Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80	21462	19718 history1 <1 13 2 0.036 368.9 history1 3112 768 69	16347 history2 <1 13 2 0.020 200.5 history2 13543 ▲ 2685 ● 105
Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20 >4	21462 current 2 17 1 0.030 309.5 current 2722 551 37 16	19718 history1 <1 13 2 0.036 368.9 history1 3112 768 69 21	16347 history2 <1 13 2 0.020 200.5 history2 13543 △ 2685 ○ 105 23
Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20 >4	21462 current 2 17 1 0.030 309.5 current 2722 551 37 16 7	19718 history1 <1 13 2 0.036 368.9 history1 3112 768 69 21 1	16347 history2 <1 13 2 0.020 200.5 history2 13543 ▲ 2685 ● 105 23 2



OIL ANALYSIS REPORT

