

OIL ANALYSIS REPORT

ISO

Sample Rating Trend

Machine Id

KAESER CSD 100S 4008089 (S/N 1259)

Component Compressor Fluid

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 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.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA018379	KCPA010275	KCP54045
Sample Date		Client Info		07 Jun 2024	22 Nov 2023	14 Mar 2023
Machine Age	hrs	Client Info		36621	36037	0
Oil Age	hrs	Client Info		3000	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	<1	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	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	6	2	4
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m	-			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	1919.11		limit/base			
		method		current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	29	34	37
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	61	78	74
Calcium	ppm	ASTM D5185m	0	0	4	1
Phosphorus	ppm	ASTM D5185m	0	2	<1	8
Zinc	ppm	ASTM D5185m	0	11	0	6
Sulfur	ppm	ASTM D5185m	23500	22100	20137	22655
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	<1	2
Sodium	ppm	ASTM D5185m		28	36	23
				20		
Potassium	ppm	ASTM D5185m	>20	7	6	9
Potassium Water	ppm %	ASTM D5185m ASTM D6304		-		9 0.023
				7	6	
Water	% ppm	ASTM D6304	>0.05	7 0.023	6 0.020	0.023
Water ppm Water	% ppm	ASTM D6304 ASTM D6304	>0.05 >500	7 0.023 236	6 0.020 202	0.023 234.1
Water ppm Water FLUID CLEANLIN Particles >4µm	% ppm	ASTM D6304 ASTM D6304 method	>0.05 >500 limit/base	7 0.023 236 current	6 0.020 202 history1	0.023 234.1 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647	>0.05 >500 limit/base	7 0.023 236 current 21607	6 0.020 202 history1 27724	0.023 234.1 history2 14216
Water ppm Water FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80	7 0.023 236 current 21607 ▲ 7958	6 0.020 202 history1 27724 ▲ 8068	0.023 234.1 history2 14216 ▲ 3260
Water ppm Water FLUID CLEANLIN	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80	7 0.023 236 current 21607 ▲ 7958 ▲ 453	6 0.020 202 history1 27724 ▲ 8068 ▲ 678	0.023 234.1 history2 14216 ▲ 3260 ▲ 239
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4	7 0.023 236 current 21607 ▲ 7958 453 ▲ 70	6 0.020 202 history1 27724 ▲ 8068 ▲ 678 ▲ 197	0.023 234.1 history2 14216 ▲ 3260 ▲ 239 ▲ 39
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4	7 0.023 236 current 21607 ▲ 7958 ▲ 453 ▲ 70 4	6 0.020 202 history1 27724 ▲ 8068 ▲ 678 ▲ 197 ▲ 7	0.023 234.1 history2 14216 ▲ 3260 ▲ 239 ▲ 39 2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	% ppm ESS	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4 >3	7 0.023 236 current 21607 ▲ 7958 ▲ 453 ▲ 70 4 0	6 0.020 202 history1 27724 ▲ 8068 ▲ 678 ▲ 197 ▲ 7 0	0.023 234.1 history2 14216 ▲ 3260 ▲ 239 ▲ 39 2 1

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Contact/Location: M. SILVA - COSSANCA



Water (ppm)

Water (KF)

Abnormal

Viscosity @ 40°C

Mar14/23

Mar14/23

1200

10000

600

4000

200

n

60

55

40

35

/ug28/

Se

B

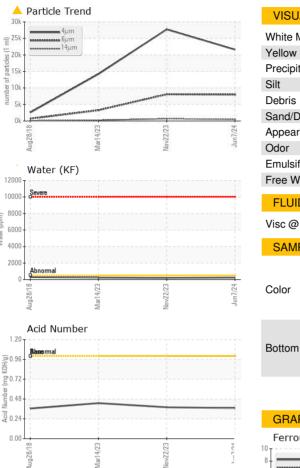
Se

Aug28/18

Abnormal

Water (ppm)

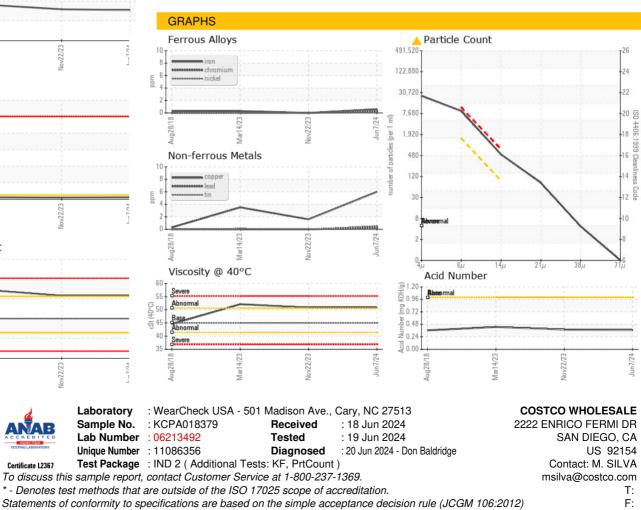
OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	50.8	50.8	52.1
SAMPLE IMAGES		method	limit/base	current	history1	history2



Bottom



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