

PROBLEM SUMMARY

Sample Rating Trend



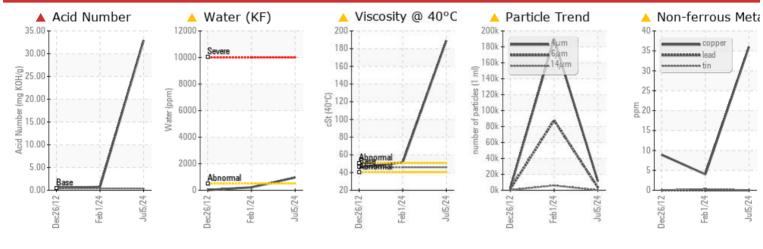
Machine Id

KAESER BSD 50 4400191 (S/N 1151)

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for a possible overheat condition. Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	ABNORMAL		
Copper	ppm	ASTM D5185m	>50	△ 36	4	9		
Water	%	ASTM D6304	>0.05	△ 0.096	0.022	0.002		
ppm Water	ppm	ASTM D6304	>500	4 964	221	20		
Particles >6µm		ASTM D7647	>1300	4 3525	▲ 87736	<u> </u>		
Particles >14µm		ASTM D7647	>80	149	△ 5993	<u>^</u> 271		
Particles >21µm		ASTM D7647	>20	<u> </u>	▲ 1265	4 91		
Oil Cleanliness		ISO 4406 (c)	>/17/13	21/19/14	<u>\$\infty\$ 25/24/20</u>	▲ 18/15		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	32.91	0.73	0.517		
Visc @ 40°C	cSt	ASTM D445	46	189	51.4	46.23		

Customer Id: PAVCHAKC Sample No.: KCPA020077 Lab Number: 06233840 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED	DED ACTIONS				
Action	Status	Date	Done By	Description	
Change Fluid			?	Oil and filter change at the time of sampling has been noted.	
Change Filter			?	Oil and filter change at the time of sampling has been noted.	
Check For Overheating			?	We advise that you check for a possible overheat condition.	

HISTORICAL DIAGNOSIS

01 Feb 2024 Diag: Jonathan Hester

ADDITIVES



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. There is a high amount of particulates present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.



26 Dec 2012 Diag: Doug Bogart



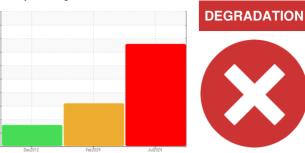
We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER BSD 50 4400191 (S/N 1151)

Compressor

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

DIAGNOSIS

Recommendation

We advise that you check for a possible overheat condition. Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

An increase in the copper level is noted.

Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

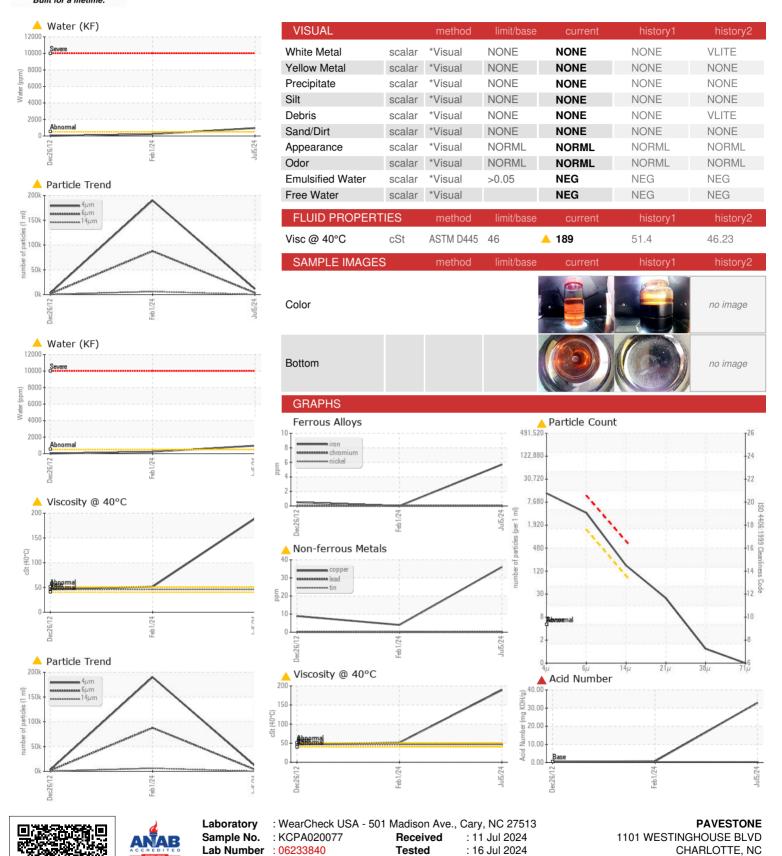
Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish. The oil is no longer serviceable.

		Dec	2012	Feb 2024 Jul 202		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA020077	KCP36734	KC33534
Sample Date		Client Info		05 Jul 2024	01 Feb 2024	26 Dec 2012
Machine Age	hrs	Client Info		74262	70852	0
Oil Age	hrs	Client Info		6000	2000	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	6	0	<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	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm		>50	<u> </u>	4	9
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m	>10			0
Vanadium		ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		17	0	0
Barium	ppm	ASTM D5185m	90	0	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	10	0	3
Calcium	ppm	ASTM D5185m		13	0	0
		ASTM D5185m	2	271	264	2
Phosphorus Zinc	ppm					
-	ppm	ASTM D5185m		314	114	12
Sulfur	ppm	ASTM D5185m		136	1392	17844
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		49	21	2
-						
Potassium	ppm	ASTM D5185m	>20	11	2	7
Water	%	ASTM D5185m ASTM D6304	>20 >0.05	11 ^ 0.096	2 0.022	7 0.002
Potassium Water ppm Water						
Water	% ppm	ASTM D6304	>0.05	△ 0.096	0.022	0.002
Water ppm Water FLUID CLEANLIN	% ppm	ASTM D6304 ASTM D6304	>0.05 >500	▲ 0.096 ▲ 964	0.022 221	0.002 20
Water ppm Water FLUID CLEANLIN Particles >4µm	% ppm	ASTM D6304 ASTM D6304 method	>0.05 >500 limit/base	△ 0.096 △ 964 current	0.022 221 history1	0.002 20 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647	>0.05 >500 limit/base	△ 0.096 △ 964 current	0.022 221 history1 189904	0.002 20 history2 2923
Water ppm Water FLUID CLEANLIN Particles >4 Particles >6 Particles >14 Particles >14	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80	△ 0.096 △ 964 current 11406 △ 3525	0.022 221 history1 189904 \$7736	0.002 20 history2 2923 1592
Water ppm Water	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80	 ▲ 0.096 ▲ 964 Current 11406 ▲ 3525 ▲ 149 	0.022 221 history1 189904 ▲ 87736 ▲ 5993	0.002 20 history2 2923 \$\triangle\$ 1592 \$\triangle\$ 271
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	△ 0.096 △ 964 current 11406 △ 3525 △ 149 △ 21	0.022 221 history1 189904 ▲ 87736 ▲ 5993 ▲ 1265	0.002 20 history2 2923 \$\triangle 1592 \$\triangle 271 \$\triangle 91
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 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4	△ 0.096 △ 964 current 11406 △ 3525 △ 149 △ 21 1	0.022 221 history1 189904 ▲ 87736 ▲ 5993 ▲ 1265 ▲ 25	0.002 20 history2 2923 \$\triangle 1592 \$\triangle 271 \$\triangle 91 \$\triangle 14



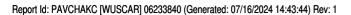
OIL ANALYSIS REPORT



Diagnosed

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 16 Jul 2024 - Jonathan Hester



Certificate 12367

Unique Number : 11122674

Test Package : IND 2 (Additional Tests: KF, PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

US 28273

T:

F:

Contact: SERVICE MANAGER