

Air Compressor

Component

12

10

8

6

4

2

0

Jan 12/21

Acid Number (mg KOH/g)

Fluid

KAESER 2350 NORTH

BEACON SIGNAL TED 46 HT (5 GAL)

COMPONENT CONDITION SUMMARY

Acid Number

PROBLEM SUMMARY

Viscosity @ 40°C

Feb13/21

65

60

55

Abnormal

Abnormal

cSt (40°C) 05

45

40

35

Mar22/21

Jan12/21

Sample Rating Trend DEGRADATION

Particle Trend

4μm

6μm

-14μm

Feb 13/21

Mar22/21

10k

9k

8k

7k

6k

5k 4k

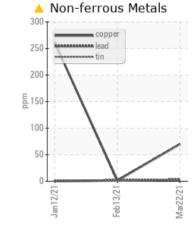
3k 2k

1k

0k

Jan 12/21

number of particles (1 ml)



RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Feb 13/21

Mar22/21

PROBLEMATIC I	ESTRE	SUL15				
Sample Status				SEVERE	NORMAL	SEVERE
Copper	ppm	ASTM D5185m	>40	<u> </u>	2	261
Particles >6µm		ASTM D7647	>1300	A 3020	1135	🔺 1451
Particles >14µm		ASTM D7647	>80	<u> </u>	18	1 22
Particles >21µm		ASTM D7647	>20	<u> </u>	3	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	20/17/11	▲ 20/18/14
Acid Number (AN)	mg KOH/g	ASTM D8045		ම 3.445	1.406	11.01
Visc @ 40°C	cSt	ASTM D445		6 52.9	48.6	▲ 62.6

Customer Id: BEADEI Sample No.: WCI2277598 Lab Number: 05219719 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

F	RECOMMENDED AC	TIONS			
Ac	tion	Status	Date	Done By	Description
Cł	ange Fluid			?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flu	ush System			?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Cł	ange Filter			?	We recommend you service the filters on this component.
Re	esample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



13 Feb 2021 Diag: Jonathan Hester

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



12 Jan 2021 Diag: Doug Bogart



We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for laboratory data and diagnostic comment updates. The iron level is severe. The copper level is severe. There is a moderate amount of particulates present in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The oil is no longer serviceable.





OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

X

KAESER 2350 NORTH

Air Compressor Fluid BEACON SIGNAL TED 46 HT (5 GAL)

DIAGNOSIS

Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

🔺 Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

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

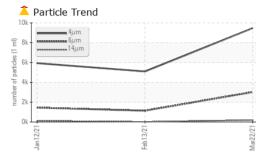
Fluid Condition

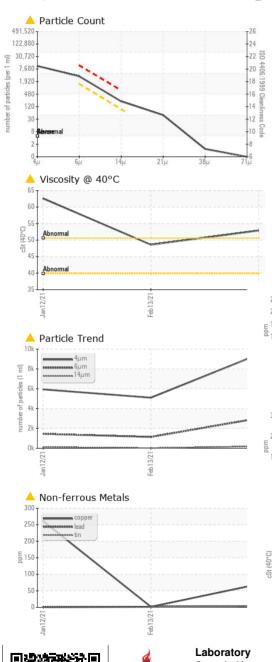
The AN level is above the recommended limit. The oil viscosity is higher than normal.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WCI2277598	WCI2277593	WCI2277566
Sample Date		Client Info		22 Mar 2021	13 Feb 2021	12 Jan 2021
Machine Age	hrs	Client Info		25618	0	24819
Oil Age	hrs	Client Info		848	30	2337
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	NORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	36	<1	234
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>20	3	2	0
Copper	ppm	ASTM D5185m	>40	<u> </u>	2	261
Tin	ppm	ASTM D5185m	>5	3	<1	0
Antimony	ppm	ASTM D5185m		2	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	3
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	<1	1
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m		67	61	114
Zinc	ppm	ASTM D5185m		156	4	559
Sulfur	ppm	ASTM D5185m		115	212	152
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		4	<1	5
Potassium	ppm	ASTM D5185m	>20	0	0	6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		9473	5097	5940
Particles >6µm		ASTM D7647	>1300	<u> </u>	1135	1 451
Particles >14µm		ASTM D7647	>80	<u> </u>	18	1 22
Particles >21µm		ASTM D7647	>20	<u> </u>	3	<u> </u>
Particles >38µm		ASTM D7647	>4	1	1	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 20/19/15	20/17/11	▲ 20/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		• 3.445	1.406	• 11.01

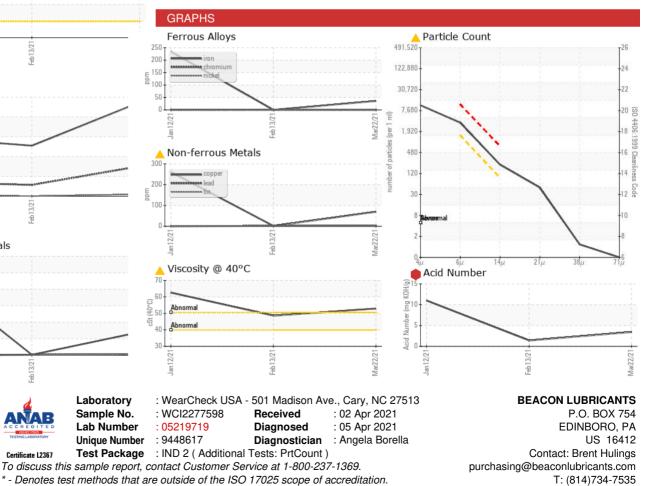


OIL ANALYSIS REPORT





VISUAL		method	limit/base	ourropt	historyd	history
VISUAL		method	iimii/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	NONE	NONE
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	>0.6	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	IES	method	limit/baco	ourrent	history1	history?
FLUID PROPERT	IES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base	current	history1 48.6	history2
	cSt		limit/base			
Visc @ 40°C	cSt	ASTM D445		▲ 52.9	48.6	▲ 62.6



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

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