

OIL ANALYSIS REPORT

Sample Rating Trend WATER

KAESER ASD 40ST 6188580 (S/N 4463)

Component Compressor Fluid

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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

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

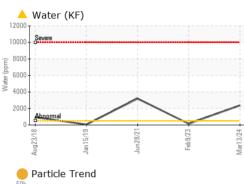
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA014883	KCP52477	KCP32358
Sample Date		Client Info		13 Mar 2024	09 Feb 2023	28 Jun 2021
Machine Age	hrs	Client Info		42549	0	22952
Oil Age	hrs	Client Info		0	0	5224
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	11	5	8
Tin	ppm	ASTM D5185m	>10	<1	0	0
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	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	5	0	<1
Calcium	ppm	ASTM D5185m	2	4	0	0
Phosphorus	ppm	ASTM D5185m		17	2	3
Zinc	ppm	ASTM D5185m		16	0	0
Sulfur	ppm	ASTM D5185m		20081	14828	11970
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	0
Sodium	ppm	ASTM D5185m		10	<1	0
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Water	%	ASTM D6304	>0.05	A 0.237	0.014	▲ 0.319
ppm Water	ppm	ASTM D6304	>500	A 2370	146.4	A 3190
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1644	41729	
Particles >6µm		ASTM D7647	>1300	896	<u> </u>	
Particles >14µm		ASTM D7647	>80	<mark> </mark> 152	1 39	
Particles >21µm		ASTM D7647	>20	<mark> </mark> 51	14	
Particles >38µm		ASTM D7647	>4	8	0	
Particles >71µm		ASTM D7647	>3	1	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	e 18/17/14	▲ 23/20/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 4:12:29) Rev: 1	mg KOH/g	ASTM D8045		0.51 .ocation: SERVI		0.370

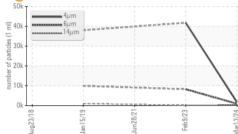
Report Id: STAHOUKC [WUSCAR] 06152589 (Generated: 04/23/2024 14:12:29) Rev: 1

Contact/Location: SERVICE MANAGER ? - STAHOUKC

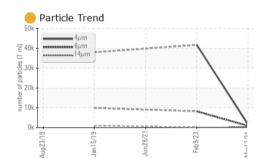


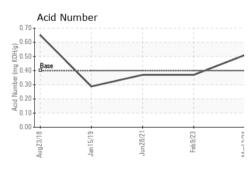
OIL ANALYSIS REPORT

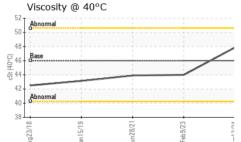




an1









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA014883 Sample No. Lab Number : 06152589 Unique Number : 10982667

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.

GRAPHS Ferrous Alloys

icke

, ne

Jan 15/19

Jan 15/19

Viscosity @ 40°C

Non-ferrous Metals

10

2

0

15

Mua23/

Aug23/1

Abnorm

Abnor

55

50

40

35

Aua23/18

(40°C) Ba 45

ŝ

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

lun28/21

lun28/21

Received

Diagnosed

Tested

T: F:

Mar13/24

Feb 9/23

STAR PRECISION

HOUSTON, TX

US 77041

5410 BRYSTONE ST

Contact: SERVICE MANAGER

20 8 4406

19999

Report Id: STAHOUKC [WUSCAR] 06152589 (Generated: 04/23/2024 14:12:29) Rev: 1

Contact/Location: SERVICE MANAGER ? - STAHOUKC

Page 2 of 2

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	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🛑 HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT		method	limit/base		1.	
· LOID · HOI LITT	IES	methou	iimit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.86	44.0	43.9
	cSt				, , , , , , , , , , , , , , , , , , ,	,
Visc @ 40°C	cSt	ASTM D445	46	47.86	44.0	43.9

Particle Count

Acid Number

Jan 15/19

lun28/21

491.52

122,880

30,720

7,680

480

120

30

(B/HO) 0.60 (mg KOH/d)

5 0.20

0.00 P

Base 0.40

Aua23/1

(per 1 1,920

Mar13/24

Mar13/24 -

: 17 Apr 2024

: 23 Apr 2024

: 23 Apr 2024 - Jonathan Hester

Feb9/23

Feb9/23 -