

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Machine Id **KAESER ESD 300 1873977 (S/N 1004)** Component

Component Compressor

Fluid 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.

Wear

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA018792	KCP05497	KCP02701
Sample Date		Client Info		25 Jun 2024	13 Dec 2017	31 Jul 2017
Machine Age	hrs	Client Info		66767	36208	34232
Oil Age	hrs	Client Info		3000	1216	3000
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	1	<1	0
Copper	ppm	ASTM D5185m		13	6	10
Tin	ppm	ASTM D5185m	>10	-13 <1	<1	<1
Antimony		ASTM D5185m	210	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
	ppm			u <1		0
Cadmium	ppm	ASTM D5185m		<1	0	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m	90	23	<1	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	1	<1	0
Calcium	ppm	ASTM D5185m	2	2	<1	0
Phosphorus	ppm	ASTM D5185m		14	<1	<1
Zinc	ppm	ASTM D5185m		23	<1	<1
Sulfur	ppm	ASTM D5185m		70	12948	11832
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	0	<1
Sodium	ppm	ASTM D5185m		2	<1	<1
Potassium	ppm	ASTM D5185m	>20	4	<1	<1
Water	%	ASTM D6304	>0.05	0.049	0.004	0.006
ppm Water	ppm	ASTM D6304	>500	495	40	60
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		636	3089	2750
Particles >6µm		ASTM D7647	>1300	154	1260	929
Particles >14µm		ASTM D7647	>80	9	152	▲ 310
Particles >21µm		ASTM D7647 ASTM D7647		1	25	▲ 176
Particles >38µm		ASTM D7647 ASTM D7647	>20	0	0	▲ 38
Particles >71µm Oil Cleanliness		ASTM D7647		0	0	▲ 5 ▲ 17/15
On Cleaniness		ISO 4406 (c)	>/17/13	16/14/10	17/14	▲ 17/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

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Contact/Location: SERVICE MANAGER ? - HONRICKC



Water (ppm)

of particles (per 1

48 120

30

1000

600 Water (

4000

200

10

Î

articles (1 61

of n 41

21

0

Water (KF)

Abnormal

Particle Trend

vua 13

144

OIL ANALYSIS REPORT

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

cSt

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

limit/base

>0.05

46

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

curren

current

NEG

NEG

62.95

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

historv1

NEG

NEG

45.81

history2

NONE

NONE

NONE

NONE

A MODER

NONE

NORML

NORML

history2

history2

NEG

NEG

44.68

method

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

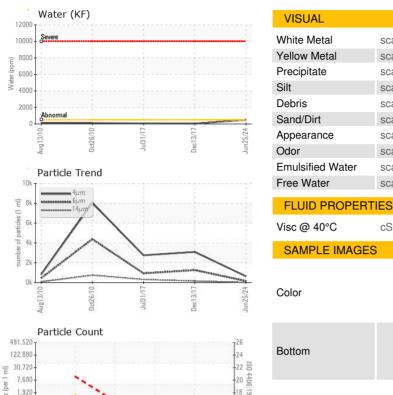
*Visual

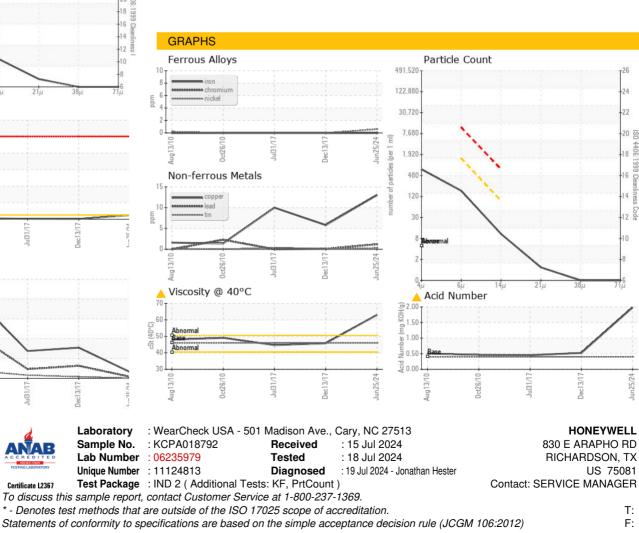
method

ASTM D445

method

scalar *Visual





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