

## **OIL ANALYSIS REPORT**

Machine Id

# KAESER ESD 300 8937798 (S/N 1175)

Component Compressor

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

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

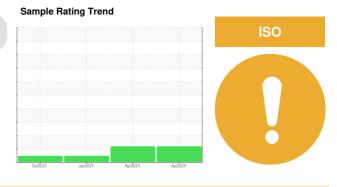
All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

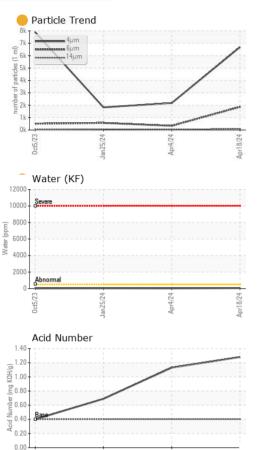
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC109423	KC06156958	KC121965
Sample Date		Client Info		18 Apr 2024	04 Apr 2024	25 Jan 2024
Machine Age	hrs	Client Info		6596	6367	4922
Oil Age	hrs	Client Info		6596	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	2	0
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	8	8	7
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>50	2	2	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	00	1	0	0
Molybdenum		ASTM D5185m	90	، <1	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	90	۰ <1	<1	1
Calcium	ppm ppm	ASTM D5185m		3	0	1
		ASTM D5185m	2	39	27	36
Phosphorus Zinc	ppm	ASTM D5185m		4	0	0
-	ppm	ASTIVI DOTODIII		4	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		<1	<1	3
Potassium	ppm	ASTM D5185m	>20	6	6	4
Water	%	ASTM D6304	>0.05	0.005	0.002	0.003
ppm Water	ppm	ASTM D6304	>500	56	21	35
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6692	2174	1829
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1867	337	571
Particles >14µm		ASTM D7647	>80	95	38	62
Particles >21µm		ASTM D7647		15	12	17
Particles >38µm		ASTM D7647	>4	0	1	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>20/18/14</b>	18/16/12	18/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	1.28	<b>1</b> .13	0.69



# **OIL ANALYSIS REPORT**



Jan25/24

Jan 25/24

an75/7/

Water (KF)

Abnormal

Viscosity @ 40°C

1200

10000

4000

200

52 Abnorma

50

48 (J) 46 55 (40°C) Bas

47

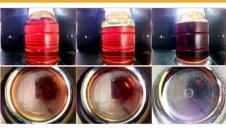
38

Abn 40

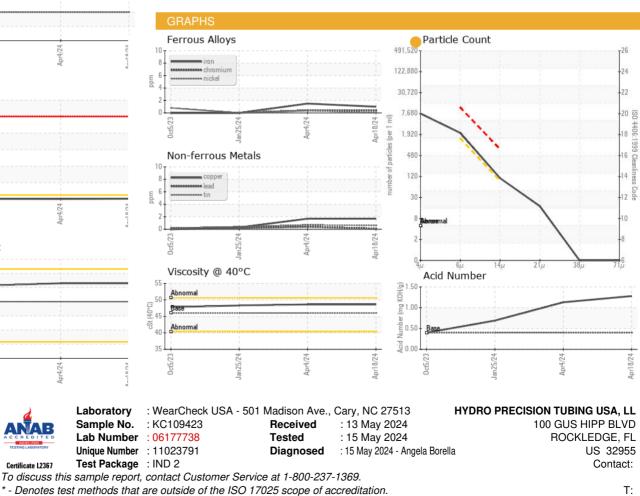
Water (ppm) 600

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	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	>0.05	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	46	48.6	48.6	48.3
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						

Color



Bottom



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

Contact/Location: ? ? - HYDROC Page 2 of 2

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