

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**WEAR** 

#### Machine Id **KAESER ESD 300 8860174 (S/N 1769)** Component

Component Compressor

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

# DIAGNOSIS

## Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

# 🔺 Wear

The aluminum 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 acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs	Client Info				
Machine Age Oil Age Oil Changed Sample Status				KC130931	KC127690	
Oil Age Oil Changed Sample Status		Client Info		05 Jun 2024	11 Jan 2024	
Oil Changed Sample Status		Client Info		3628	2026	
Sample Status	hrs	Client Info		3628	0	
		Client Info		Not Changd	N/A	
				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	3	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	13	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>50	2	<1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron					0	
	ppm	ASTM D5185m	00	0		
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m	00	<1	0	
Magnesium	ppm	ASTM D5185m	90	0	0	
Calcium	ppm	ASTM D5185m	2	0	0	
Phosphorus	ppm	ASTM D5185m		52	38	
Zinc	ppm	ASTM D5185m		28	0	
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	0	
Sodium	ppm	ASTM D5185m		8	2	
Potassium	ppm	ASTM D5185m	>20	6	2	
Water	%	ASTM D6304	>0.05	0.004	0.004	
opm Water	ppm	ASTM D6304	>500	43	46	
	IESS	method	limit/base	current	history1	history2
FLUID CLEANLIN		ASTM D7647		15357	67860	
FLUID CLEANLIN Particles >4µm		ASTM D7647	>1300	<u> </u>	16370	
Particles >4µm			~~	4 1 4 1 5		
Particles >4µm Particles >6µm		ASTM D7647	>80	🔺 1415	427	
Particles >4μm Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647		▲ 1415 ▲ 457	<ul><li>▲ 427</li><li>▲ 80</li></ul>	
Particles >4μm Particles >6μm Particles >14μm Particles >21μm						
Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647	>20	<u> </u>	<b>A</b> 80	
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647	>20 >4	<ul><li>▲ 457</li><li>▲ 4</li></ul>	▲ 80 3	
		ASTM D7647 ASTM D7647 ASTM D7647	>20 >4 >3	<ul> <li>▲ 457</li> <li>▲ 4</li> <li>0</li> </ul>	▲ 80 3 0	

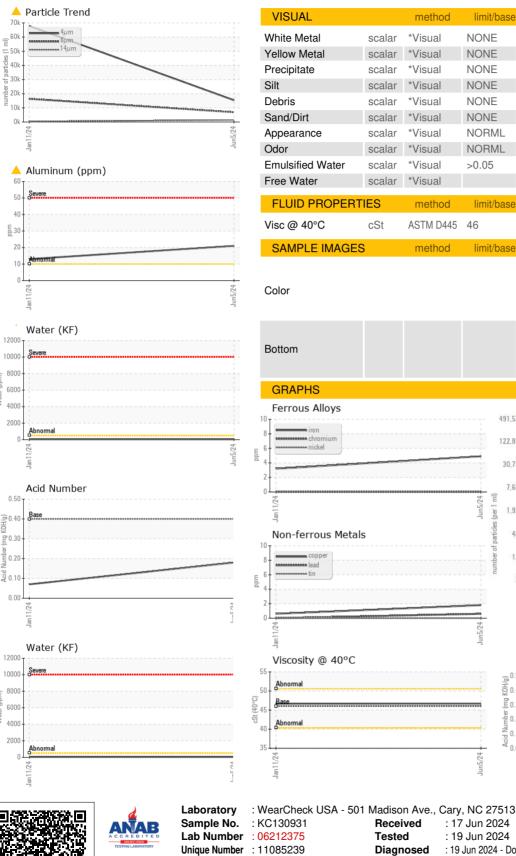


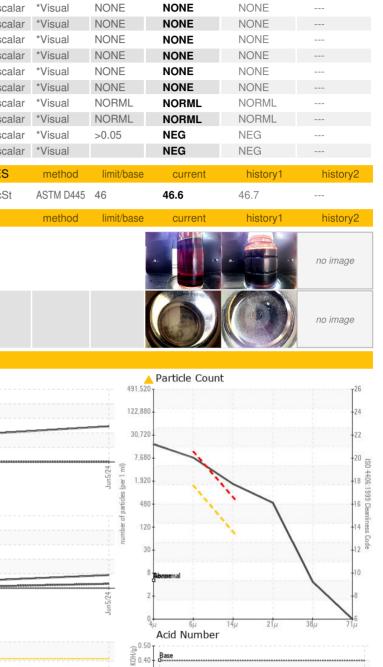
Water

r (ppm)

Water

# **OIL ANALYSIS REPORT**





Ē 0.30

· 문 0.20

Acid

: 19 Jun 2024 - Don Baldridge

un5/24

: 17 Jun 2024

: 19 Jun 2024

0.10

0.00

Jan 1

limit/base

current

history1

history2

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

Test Package : IND 2

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate 12367

Contact/Location: Service Manager - ARCGRA Page 2 of 2

**ARCH RESOURCES** 

Contact: Service Manager

1200 TYGART DR

GRAFTON, WV

US 26354

T:

F: