

### **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO



# KAESER ASD 25T 4385282 (S/N 1044)

Component Compressor

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

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. 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 high amount of particulates present in the oil.

#### Fluid Condition

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

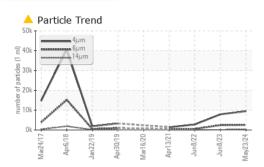
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA018062	KCPA003313	KCP50776
Sample Date		Client Info		23 May 2024	08 Jun 2023	08 Jun 2022
Machine Age	hrs	Client Info		22691	19895	15445
Oil Age	hrs	Client Info		2996	0	3077
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	<1	<1
Lead	ppm	ASTM D5185m	>10	- <1	0	0
Copper	ppm	ASTM D5185m		1	1	<1
Tin	ppm	ASTM D5185m	>10	، <1	0	0
Antimony	ppm	ASTM D5185m	~10	<1		
Vanadium		ASTM D5185m		<1	<1	0
	ppm					
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	20	13	19
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	54	86	81
Calcium	ppm	ASTM D5185m	0	4	<1	1
Phosphorus	ppm	ASTM D5185m	0	32	0	5
Zinc	ppm	ASTM D5185m	0	5	0	1
Sulfur	ppm	ASTM D5185m	23500	16932	23576	19584
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	2
Sodium	ppm	ASTM D5185m		22	30	15
	ppm	ASTM D5185m	>20	4	3	<1
Potassium	1010 11					
	%	ASTM D6304		-	0.022	0.022
Water	% ppm	ASTM D6304 ASTM D6304		0.021	0.022 222.0	0.022 224.3
Water	ppm		>0.05	0.021		
Water ppm Water	ppm	ASTM D6304	>0.05 >500	0.021 212	222.0	224.3
Water ppm Water FLUID CLEANLIN Particles >4µm	ppm	ASTM D6304 method ASTM D7647	>0.05 >500 limit/base	0.021 212 current 9438	222.0 history1	224.3 history2 2785
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	ASTM D6304 method ASTM D7647	>0.05 >500 limit/base >1300	0.021 212 current	222.0 history1 7904	224.3 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80	0.021 212 current 9438 ▲ 2571 ▲ 231	222.0 history1 7904 2447 127	224.3 history2 2785 507 17
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20	0.021 212 current 9438 ▲ 2571 ▲ 231 ▲ 80	222.0 history1 7904 2447 127 21	224.3 history2 2785 507 17 2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4	0.021 212 current 9438 ▲ 2571 ▲ 231 ▲ 80 4	222.0 history1 7904 2447 127 21 0	224.3 history2 2785 507 17 2 0
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4 >3	0.021 212 current 9438 ▲ 2571 ▲ 2571 ▲ 231 ▲ 80 4 0	222.0 history1 7904 2447 127 21 0 0 0	224.3 history2 2785 507 17 2 0 0 0
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ESS	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	>0.05 >500 limit/base >1300 >80 >20 >4 >3 >/17/13	0.021 212 9438 ▲ 2571 ▲ 231 ▲ 80 4 0 ▲ 20/19/15	222.0 history1 7904 2447 127 21 0 0 0 20/18/14	224.3 history2 2785 507 17 2 0 0 0 19/16/11
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ESS	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4 >3	0.021 212 current 9438 ▲ 2571 ▲ 2571 ▲ 231 ▲ 80 4 0	222.0 history1 7904 2447 127 21 0 0 0	224.3 history2 2785 507 17 2 0 0 0

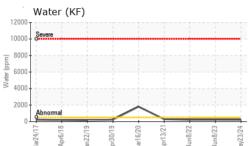
Report Id: PROARL [WUSCAR] 06195423 (Generated: 05/31/2024 16:56:28) Rev: 1

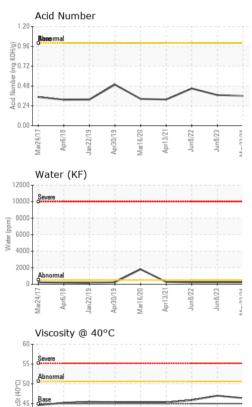
Contact/Location: SERVICE MANAGER ? - PROARL

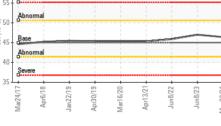


## **OIL ANALYSIS REPORT**











	Laboratory Sample No.
TESTING LABORATORY	Lab Number Unique Number
Contificanto   2267	Test Package

: 06195423 : 11057546

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Tested Diagnosed

Apr13/71

: 30 May 2024 : 31 May 2024 : 31 May 2024 - Angela Borella ge : IND 2 (Additional Tests: KF, PrtCount)

un8/22

**PRO TECH DESIGN & MANUFACTURING INC** 4041 EXPRESS ST ARLINGTON, TX US 76001 Contact: SERVICE MANAGER

or13/2

Mar16/20

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.

: KCPA018062

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

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Contact/Location: SERVICE MANAGER ? - PROARL

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T:

F:

in8/73 v23/24

20 8

4406

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	45	46.4	47.0	45.9
SAMPLE IMAGES	;	method	limit/base	current		
			initi base	Current	history1	history2
Color			innivodse		history1	history2

Particle Count

Acid Number

an22/19

491 520

122,880

30,720

7,680

480

120

30

(B/1.20 HOX 0.96

Ë 0.72

· 은 0.48

0.24

0.00 PC

Mar24/17

un8/23

n8/73

un8/23

Aav73/74

lay23/24

May23/24 -

(per 1 1,920

Apr13/7

ur30/1

Mar16/20 un13/7

Mar16/20

10Cur /gra

> 100 mm nr30/

an22/1

Viscosity @ 40°C

Non-ferrous Metals

10

Mar24/1

Mar24/1

Se

Se

Mar24/1

60

55 Abnorma

45 ŝ

40

35

() 50

10

GRAPHS Ferrous Alloys