

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

### Area [1669] KAESER BSD 50T 1354

#### Component Compressor

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

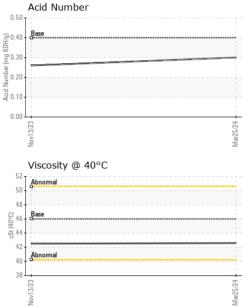
#### Fluid Condition

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

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0872524	WC0854608	
Sample Date		Client Info		25 Mar 2024	13 Nov 2023	
Machine Age	hrs	Client Info		35015	32630	
Oil Age	hrs	Client Info		4910	2525	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	2	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>10	0	<1	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	5	3	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	90	0	<1	
Calcium	ppm	ASTM D5185m	2	0	1	
Phosphorus	ppm	ASTM D5185m		146	190	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		10000	9708	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	
Sodium	ppm	ASTM D5185m		2	1	
Potassium	ppm	ASTM D5185m	>20	0	2	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.30	0.26	



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White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	scalar	*Visual	NONE		NONE	
	scalar	*Visual	NONE		NONE	
			>0.05			
		visual		NEG	NEG	
	IES	method	limit/base	current	history1	history2
	cSt	ASTM D445	46	42.6	42.5	
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
GRAPHS						
Ferrous Alloys						
8 - iron 6 - nickel						
2 -						
0 2			24			
ov13/			lar25/			
—	_		2			
	s 					
copper						
c tin						
dd 4						
2						
0						
13/23			25/24			
Nov			Mar			
Viscosity @ 40°C				Acid Number		
55			<sub>,</sub> €0.50	Т:		
50 +			HO 0.40	Base		
€ 45 - Base			Ē 0.30			
성 Abnormal						
40			P 0.10			
35				23		
w13/j			ar25//	v13/.		M2E.D.M
Nc			W	No		:
				ELEVA		L SOLUTION AWTON AVE
						MONROE, O
				Baldridge	ľ	US 4505
	Biagn		. p. 2027 DUII	_ 4.0.1090	Contact: ROBI	
	ice at 1-8	00-237-1369	9.	r.prichar		
are outside of the ISO 1	7025 sco	pe of accrea	litation.	-	T: (	513)539-515
				rule (JCGM 10		F
4 12:23:26) Rev: 1			<u> </u>	/Location: ROE		
	Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Output Color Bottom GRAPHS Ferrous Metal Color	Yellow Metal  scalar    Precipitate  scalar    Silt  scalar    Debris  scalar    Sand/Dirt  scalar    Appearance  scalar    Odor  scalar    Free Water  scalar    Fere Water  scalar    Color  Color    Bottom  GRAPHS    Ferrous Alloys  Image: Scalar    Image: Scalar  Scalar    Second  Scalar    Solor  Scalar    Bottom  Image: Scalar    Image: Scalar  Scalar    Scalar  Scalar	Yellow Metal  scalar  *Visual    Precipitate  scalar  *Visual    Silt  scalar  *Visual    Debris  scalar  *Visual    Sand/Dirt  scalar  *Visual    Appearance  scalar  *Visual    Odor  scalar  *Visual    Emulsified Water  scalar  *Visual    Free Water  scalar  *Visual    Free Water  scalar  *Visual    Fere Water  scalar  *Visual    FLUID PROPERTIES  method    Visc @ 40°C  cSt  ASTM D445    SAMPLE IMAGES  method    Color  GRAPHS    Ferrous Alloys	Yeilow Metal  scalar  *Visual  NONE    Precipitate  scalar  *Visual  NONE    Silt  scalar  *Visual  NONE    Debris  scalar  *Visual  NONE    Appearance  scalar  *Visual  NORE    Appearance  scalar  *Visual  NORML    Color  scalar  *Visual  NORML    FLUID PROPERTIES  method  imit/base    Visc @ 40°C  cSt  ASTM D445  46    SAMPLE IMAGES  method  imit/base    Color  Imit/base  Imit/base    Color  Imit/base  Imit/base    Viscosity @ 40°C  Imit/base  Imit/base    Imit Imit/base  Imit/base  Imit/base    Imit Imit/base  Imit/base  Imit/base    Imit Imit/base  Imit/base  Imit/base    Imit Imit Imit/base  Imit/base  Imit/base <td>Yellow Metal  scalar  Visual  NONE  NONE    Precipitate  scalar  Visual  NONE  NONE    Sit  scalar  Visual  NONE  NONE    Debris  scalar  Visual  NONE  LIGHT    Sand/Dirt  scalar  Visual  NONE  NORE    Appearance  scalar  Visual  NORE  NORE    Color  scalar  Visual  NORML  NORML    Emulsified Water  scalar  Visual  &gt;0.05  NEG    Free Water  scalar  Visual  NORML  NEG    Color  SAMPLE IMAGES  method  imit/base  current    Color  Color  Scalar  Visual  Scalar  Visual  Scalar    Viscosity @ 40°C </td> <td>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    Appearance  scalar  *Visual  NORML  NORML  NORML  NORM    Odor  scalar  *Visual  NORML  NORML  NORML  NORM    Odor  scalar  *Visual  &gt;0.05  NEG  NEG  NEG    FereWater  scalar  *Visual  NORML  NORML  NORML  NORM    Visc @ 40°C  cSt  ASTM D445  46  42.6  42.5  SAMPLE IMAGES    Ferrous Alloys </td>	Yellow Metal  scalar  Visual  NONE  NONE    Precipitate  scalar  Visual  NONE  NONE    Sit  scalar  Visual  NONE  NONE    Debris  scalar  Visual  NONE  LIGHT    Sand/Dirt  scalar  Visual  NONE  NORE    Appearance  scalar  Visual  NORE  NORE    Color  scalar  Visual  NORML  NORML    Emulsified Water  scalar  Visual  >0.05  NEG    Free Water  scalar  Visual  NORML  NEG    Color  SAMPLE IMAGES  method  imit/base  current    Color  Color  Scalar  Visual  Scalar  Visual  Scalar    Viscosity @ 40°C	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    Appearance  scalar  *Visual  NORML  NORML  NORML  NORM    Odor  scalar  *Visual  NORML  NORML  NORML  NORM    Odor  scalar  *Visual  >0.05  NEG  NEG  NEG    FereWater  scalar  *Visual  NORML  NORML  NORML  NORM    Visc @ 40°C  cSt  ASTM D445  46  42.6  42.5  SAMPLE IMAGES    Ferrous Alloys

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Contact/Location: ROBIN PRICHARD - COMMONOH