

## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

# 7183629 (S/N 1020)

Component Compressor Fluid KAESER SIGMA (OEM) S-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		KCPA018212		
Sample Date		Client Info		09 Jan 2024		
Machine Age	hrs	Client Info		27537		
Oil Age	hrs	Client Info		3000		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>10	5		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m		5		
Tin	ppm		>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m		- <1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	90	3		
Calcium	ppm		2	0		
Phosphorus	ppm	ASTM D5185m	L	219		
Zinc	ppm	ASTM D5185m		318		
Sulfur	ppm	ASTM D5185m		1144		
	ppin	method	limit/base		biotonut	biotom/0
CONTAMINANTS				current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.05	0.007		
ppm Water	ppm	ASTM D6304	>500	72		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		29351		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<mark>/</mark> 36		
Particles >38µm		ASTM D7647	>4	2		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 22/20/15		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



A Particle Trend

Water (KF)

1an 9/7

0.70 0.60 (B/H0) 0.50 Ê 0.40 B ·문 0.30 0.00 Jan9/24

12000 10000 Seve

> 52 Abnormal

50 48 (J-0<del>+</del>) ts 44 B

> 42 Abnorm 40 38 Jan9/24

Acid Number

Water (KF)

Abnormal Π. Jan 9/24

Viscosity @ 40°C

30k

- 25 1

m 20k 20k 15k 10k 5k

0 Jan9/24 -

12000

Built for a lifetime."

4μm 6μm

\_14µm



	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
******	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
Jan 9/24	Appearance	scalar	*Visual	NORML	NORML		
Jan	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		
	Free Water	scalar	*Visual	20.00	NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	46	45.9		
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
				i i			
/24	Color					no image	no image
Jan 9/24				4			
	Bottom					no image	no image
						0	0.
	GRAPHS						
	Ferrous Alloys				Particle Count		
	<sup>10</sup>			491,520	I		T <sup>26</sup>
	8 - iron			122,880			-24
10.0	e 6						
1	1			30,720			-22
	2			7,680			20
	54 <sup>10</sup>				· ·		120
	Jan 9/24			Jan9/24 (per 1 ml			-18
				Cles (		N	10
	Non-ferrous Meta	115		otlined 480			16
	8 - copper			42/0 mumber of particles (per 1 ml) 480	-	11	-20 -18 -16 -14
	E 6-						12
				30			-12
VC	2				Bibrevernal		-10
, D 1	0				Ĭ		
	Jan 9/24			Jan9/24			
				- <sup>-</sup> 0	μ 6μ	14μ 21μ	38µ 71µ
	Viscosity @ 40°C				Acid Number	- The sector	
	Abnormal			(B) 0.80	I		
	5U + T			9.60			
	(D) 45 45 Abnormal			0.80 HO KOH John Koh Mump V Nump V Nump	Base		
	Abnormal			- <sup>4</sup> N 0.20	1		
	25			0.00	Jan 9/24		-
	35 + +2			m	6		0
Vicio -	35 + 62/gue/			Jan 9/24	Jar		
1 and				Jan	Lar		
Laboratory	+کروسی : WearCheck USA - 50			, NC 27513	لے عر		Z CONTAINE
ample No.	: WearCheck USA - 56 : KCPA018212	Recei	i <b>ved</b> : 18	, NC 27513 3 Jul 2024	L ar	13170	<b>Z CONTAINE</b> MARLAY AV
ample No. ab Number	: WearCheck USA - 56 : KCPA018212 : 06240334	Recei Teste	ived : 18 d : 19	, NC 27513 3 Jul 2024 9 Jul 2024		13170	<b>Z CONTAINE</b> MARLAY AV FONTANA, C
mple No. b Number que Number	: WearCheck USA - 56 : KCPA018212 : 06240334 : 11129168	Recei Teste Diagr	ived : 18 id : 19 nosed : 20	, NC 27513 3 Jul 2024		13170	<b>Z CONTAINE</b> MARLAY AV FONTANA, C US 9233
Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 56 : KCPA018212 : 06240334	Recei Teste Diagr sts: KF, P	ived : 18 d : 19 nosed : 20 rtCount )	, NC 27513 3 Jul 2024 9 Jul 2024 Jul 2024 - Don		13170 Contact	<b>Z CONTAINE</b> MARLAY AV FONTANA, C

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Contact/Location: JOEL WIRTH - SCHFON Page 2 of 2