

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

8445471 (S/N 1634) Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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

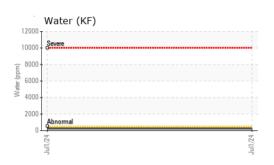
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

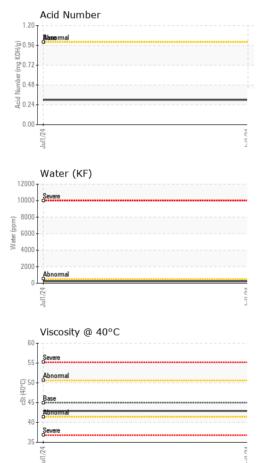
SAMPLE INFORMATION		method	limit/base	current	history1	history2	
Sample Number		Client Info		KCPA016107			
Sample Date		Client Info		01 Jul 2024			
Machine Age	hrs	Client Info		2903			
Oil Age	hrs	Client Info		2903			
Oil Changed		Client Info		Changed			
Sample Status				ABNORMAL			
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	2			
Chromium	ppm	ASTM D5185m	>10	0			
Nickel	ppm	ASTM D5185m	>3	0			
Titanium	ppm	ASTM D5185m	>3	0			
Silver	ppm	ASTM D5185m	>2	0			
Aluminum	ppm	ASTM D5185m	>10	<1			
Lead	ppm	ASTM D5185m	>10	0			
Copper	ppm	ASTM D5185m	>50	6			
Tin	ppm	ASTM D5185m	>10	0			
Vanadium	ppm	ASTM D5185m	210	0			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES	ppm	method	limit/base	current	history1	history	
					history1	history2	
Boron	ppm	ASTM D5185m	0	0			
Barium	ppm	ASTM D5185m	90	1			
Molybdenum	ppm	ASTM D5185m	0	0			
Manganese	ppm	ASTM D5185m		<1			
Magnesium	ppm	ASTM D5185m	100	55			
Calcium	ppm	ASTM D5185m	0	<1			
Phosphorus	ppm	ASTM D5185m	0	<1			
Zinc	ppm	ASTM D5185m	0	0			
Sulfur	ppm	ASTM D5185m	23500	21566			
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7			
Sodium	ppm	ASTM D5185m		16			
Potassium	ppm	ASTM D5185m	>20	6			
Water	%	ASTM D6304	>0.05	0.023			
ppm Water	ppm	ASTM D6304	>500	231			
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		2819			
Particles >6µm		ASTM D7647	>1300	<u> </u>			
Particles >14µm		ASTM D7647	>80	A 342			
Particles >21µm		ASTM D7647	>20	<mark>/</mark> 93			
Particles >38µm		ASTM D7647	>4	1			
Particles >71µm		ASTM D7647	>3	0			
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/18/16			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.30			
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-COMPRESSORS

Built for a lifetime."

🔺 Particle Trend 3 . 2 Î Gμm _14µm 50 21 The 2k 11 0 Jul1/24 11/24





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VISUAL		method	limit/base	current	history1	histor
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		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.05	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPER	TIES	method	limit/base	current	history1	histo
Visc @ 40°C	cSt	ASTM D445	45	42.9		
SAMPLE IMAGE	S	method	limit/base	current	history1	histo
					,	
Color					no image	no ima
Bottom					no image	no ima
E 6 4 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			122,880 30,720 7,680			
Jul1/24			1500-11/124			
Non-ferrous Met	als		480 ·		<	
10			a 120-			
¹⁰ copper						
8 - copper]					,)	
8 - copper			30·	-		
8 - copper lead			30-	Boreemal		\ \
E Copper lead			30 · 8 ·	Bbroe mal		
8 6 4 2			30-	- Boreemal	, _/	
8 6 4 2 0 4 2 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			30 · 8 ·	и 6,и	14μ 21μ	38µ
E Copper lead	;		30. 8. 62/11nr 0.		14μ 21μ	38µ
Viscosity @ 40°C	;		30. 8. 62/11nr 0.	и 6,и	14μ 21μ	38μ
Viscosity @ 40°C			30. 8. 62/11nr 0.	ر وزیر Acid Number	14μ 21μ	36µ
Viscosity @ 40°C	;		30. 8. 62/11nr 0.	ر وزیر Acid Number	14μ 21μ	38µ
Viscosity @ 40°C			30. 8. 62/11nr 0.	ر وزیر Acid Number	14μ 21μ	38µ
Viscosity @ 40°C			30. 8. 6/0/100 6/0/120- 6/0- 6/0/120- 6/0/120- 6/0/120- 6/0/120- 6/0- 6/0- 6/0- 6/0- 6/0- 6/0- 6/0- 6/	م Acid Number المعمساء	14μ 21μ	38µ
Viscosity @ 40°C			30. 8. 62/11nr 0.	ر وزیر Acid Number	14μ 21μ	38µ

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.

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

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Certificate L2367

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