

OIL ANALYSIS REPORT

Sample Rating Trend

ISO



KAESER SM 10 3481749 (S/N 1437)

Component Compressor Fluid

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

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 moderate 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.

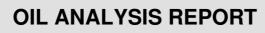
		Jul2017	Uct2018	May2020 Nov2021	Jul2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA020822	KCP39537	KCP20652
Sample Date		Client Info		03 Jul 2024	22 Nov 2021	01 May 2020
Machine Age	hrs	Client Info		24610	21182	19262
Oil Age	hrs	Client Info		723	1920	2142
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m		3	4	3
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m	210		0	0
Vanadium		ASTM D5185m		0	0	0
	ppm			0	0	
Cadmium	ppm	ASTM D5185m				0
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	<1
Barium	ppm	ASTM D5185m	90	5	0	8
Volybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	53	35	50
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	<1	4	2
Zinc	ppm	ASTM D5185m	0	17	2	0
Sulfur	ppm	ASTM D5185m	23500	20816	16851	19216
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	2	2
Sodium	ppm	ASTM D5185m		15	10	17
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Water	%	ASTM D6304	>0.05	0.021	0.014	0.029
opm Water	ppm	ASTM D6304	>500	219	141.9	299.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6556	1279	2161
Particles >6µm		ASTM D7647	>1300	<u> </u>	365	376
Particles >14µm		ASTM D7647	>80	• 111	29	24
Particles >21µm		ASTM D7647	>20	<u> </u>	6	10
Particles >38µm		ASTM D7647	>4	3	0	0
Particles >71µm		ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	20/18/14	16/12	16/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.37	0.363	0.339
41:34) Rev: 1				tact/Location: SE		

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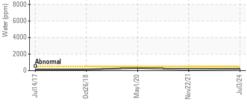
Contact/Location: SERVICE MANAGER ? - PIENAT

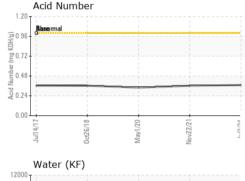


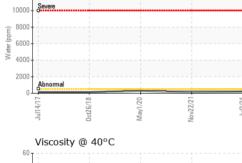
Built for a lifetime.

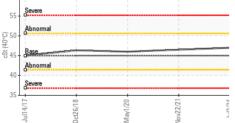


Particle	e Trend				VISUA
=10k -	• 4μm • 6μm				White Me
8 8k -	.14μm				Yellow M
for 6k				1	Precipitat
(im 10k and of particles (1 mi) 8k and 6k an	1				Silt
dunu 2k		-	/		Debris
0k	And Designation of the local division of the	The behavior		APRIL DE LE COLOR	Sand/Dir
14/17	Jct26/18	May1/20	Nov22/21	Jul3/24	Appearar
Jul	Octó	May	Nov	ŋŋ	Odor
- Water	(KE)				Emulsifie
12000 T					Free Wat
10000 - Severe					FLUD
8000					FLUID
6000 -					Visc @ 4
4000					0.4.4.01



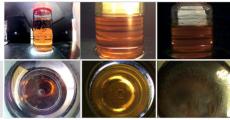




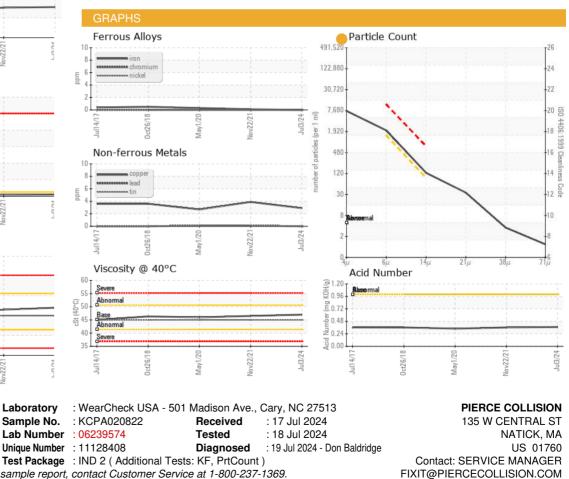


VISUAL		method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE	
Sand/Dirt	scalar	*Visual	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	47.0	46.5	46.0	
SAMPLE IMAGES		method	limit/base	current	history1	history2	

Color



Bottom



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 12367

Contact/Location: SERVICE MANAGER ? - PIENAT

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