

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id **KAESER 7923874 (S/N 1731)** Compressor

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 moderate amount of silt (particulates < 14 microns in size) present in the oil.

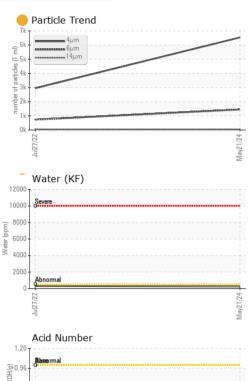
Fluid Condition

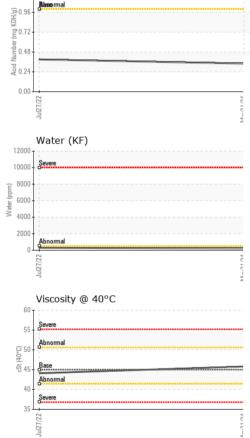
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA018038	KCP50262	
Sample Date		Client Info		21 May 2024	27 Jul 2022	
Machine Age	hrs	Client Info		994	463	
Oil Age	hrs	Client Info		531	463	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ATTENTION	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	1	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>10	<1	2	
Lead	ppm	ASTM D5185m	>10	<1	<1	
Copper	ppm	ASTM D5185m	>50	3	1	
Tin	ppm	ASTM D5185m	>10	0	1	
Vanadium	ppm	ASTM D5185m	210	۰ <1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	I - I-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	
Barium		ASTM D5185m	90	35	46	
	ppm			0	40	
Molybdenum	ppm	ASTM D5185m	0			
Manganese	ppm	ASTM D5185m	100	<1	<1	
Magnesium	ppm	ASTM D5185m	100	77	83	
Calcium	ppm	ASTM D5185m	0	0	3	
Phosphorus	ppm	ASTM D5185m	0	0	10	
Zinc	ppm	ASTM D5185m	0	3	3	
Sulfur	ppm	ASTM D5185m	23500	21734	22606	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	
Sodium	ppm	ASTM D5185m		18	14	
Potassium	ppm	ASTM D5185m	>20	2	<1	
Water	%	ASTM D6304	>0.05	0.022	0.030	
ppm Water	ppm	ASTM D6304	>500	230	302.7	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6538	2951	
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1451	732	
Particles >14µm		ASTM D7647	>80	38	35	
Particles >21µm		ASTM D7647	>20	6	9	
Particles >38µm		ASTM D7647	>4	0	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	e 20/18/12	19/17/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.34	0.39	



OIL ANALYSIS REPORT





_	VISUAL						
	White Metal	scalar	*Visual	NONE	NONE	VLITE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
i.	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
		scalar	*Visual	NORML	NORML	NORML	
	Appearance Odor						
		scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPE		method	limit/base	current	history1	history
	Visc @ 40°C	cSt	ASTM D445	45	45.8	44.1	
	SAMPLE IMAG	GES	method	limit/base	current	history1	history
	Color						no image
	Bottom						no image
	GRAPHS						
	Ferrous Alloys				Particle Count	:	
	10 iron			491,520	1		
	6			122,880	-		
	2			30,720	Ť		
				7,680			
				1/24	1		
	1			May21/24 s (per 1 ml			
	Jul27/22						
		tals		- 33 		N	
	Non-ferrous Me	etals		480 Jo			
	Non-ferrous Me	etals		480 sappitured of to bar and 120			
	Non-ferrous Me	etals		approximation 480			
	Non-ferrous Me	etals		480 120 120			
	Non-ferrous Me	etals		30			
	Non-ferrous Me	etals		8			
	Non-ferrous Me	etals		8			
	Non-ferrous Me			8	Berezemal	141 2711	38, 7
	Non-ferrous Me			30 8 +2/12/keW 0	Berearmal	14μ 21μ	38µ 71
	Non-ferrous Me			30 8 +2/12/keW 0	Berearmal	14μ 21μ	38µ 7
	Non-ferrous Me			30 8 +2/12/keW 0	Berearmal	14μ 21μ	38µ 7
	Non-ferrous Me			30 8 +2/12/keW 0	Berearmal	14μ 21μ	38µ 71
	Non-ferrous Me copper lead viscosity @ 40 ^c Viscosity @ 40 ^c block viscosity @ 40 ^c block			30 8 +2/12/keW 0	Berearmal	14μ 21μ	38μ 7
	Non-ferrous Me			30 8 +2/12/keW 0	Berearmal	14μ 21μ	38μ 7
	Non-ferrous Me			30 8 8 60/12/eW 90/10/12/eW 90/10/12/eW 90/10/12/eW 90/10/12/eW 90/10/12/eW 90/10/12/eW 90/10/12/eW 90/10/12/eW 90/10/12/eW 90/10/12/eW 90/10/12/eW	Bibroarmal	14μ 21μ	38μ 7
	Non-ferrous Me			30 8 +2/12/keW 0	Berearmal	14μ 21μ	38µ 7

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)

Certificate L2367

Contact/Location: Service Manager - NORSTAMN

T:

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