

PROBLEM SUMMARY

Sample Rating Trend

ISO

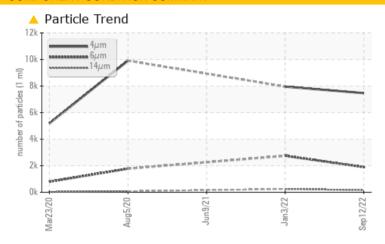
 $^{\text{Machine Id}}_{6590388}$ (S/N 1103)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



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.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL		
Particles >6µm	ASTM D7647	>1300	1895	<u>2747</u>			
Particles >14μm	ASTM D7647	>80	<u> </u>	<u> </u>			
Particles >21µm	ASTM D7647	>20	<u>^</u> 28	<u>48</u>			
Oil Cleanliness	ISO 4406 (c)	>/17/13	20/18/15	▲ 19/15			

Customer Id: TRICLE Sample No.: KCP49298 Lab Number: 05643061 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

03 Jan 2022 Diag: Don Baldridge





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. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



09 Jun 2021 Diag: Don Baldridge

WATER



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.



05 Aug 2020 Diag: Angela Borella

ISO

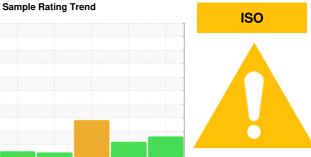


No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



6590388 (S/N 1103)

Compressor

KAESER SIGMA (OEM) M-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.

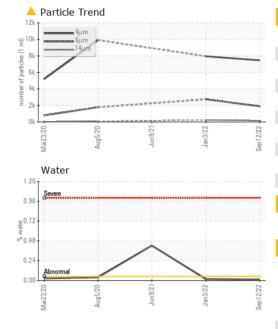
		Mar2020	Aug2020	Jun2021 Jan2022	Sep2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
	MATION	method	IIIIIIIIIIIIIII			,
Sample Number Sample Date				KCP49298 12 Sep 2022	KCP38214 03 Jan 2022	KCP35579 09 Jun 2021
Machine Age	hrs			17643	13282	8544
Oil Age	hrs			4361	4738	3642
Oil Changed	1113			Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	2
Aluminum	ppm	ASTM D5185m		<1	2	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m		11	6	7
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	<1	1
Barium	ppm	ASTM D5185m	90	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	100	0	32	12
Calcium	ppm	ASTM D5185m	0	0	3	<1
Phosphorus	ppm	ASTM D5185m	0	3	6	6
Zinc	ppm	ASTM D5185m	0	1	28	40
Sulfur	ppm	ASTM D5185m	23500	17854	16614	17905
CONTAMINANTS	}	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	1
Sodium	ppm	ASTM D5185m		<1	15	7
Potassium	ppm	ASTM D5185m	>20	0	7	4
Water	%	ASTM D6304	>0.05	0.012	0.019	△ 0.423
ppm Water	ppm	ASTM D6304	>500	123.4	193.9	▲ 4230
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		7468	7957	
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>^</u> 2747	
Particles >14µm		ASTM D7647	>80	<u> 161</u>	<u>^</u> 244	
Particles >21µm		ASTM D7647	>20	<u>^</u> 28	<u>48</u>	
Particles >38µm		ASTM D7647	>4	0	3	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/18/15	▲ 19/15	
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2

0.41

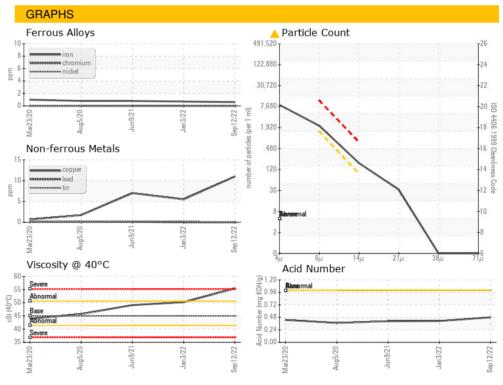
0.406



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
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	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	△ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	55.4	50.2	49.1
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number Unique Number : 10137600

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP49298 : 05643061

Received Diagnosed

: 19 Sep 2022 Diagnostician : Doug Bogart

: 15 Sep 2022

Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

TRIUMPH SHEETS 4100 OLD TASSO RD NE

CLEVELAND, TN USA 37312

Contact: Service Manager

T: F: