

PROBLEM SUMMARY

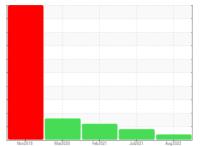
Sample Rating Trend

VISCOSITY

KAESER SK 20T 5970906 (S/N 1658)

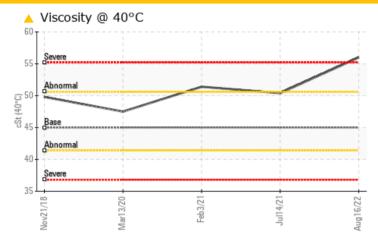
Compressor

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





COMPONENT CONDITION SUMMARY



RECOMMENDATION

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				ATTENTION	ATTENTION	ABNORMAL		
Visc @ 40°C	cSt	ASTM D445	45	△ 56.0	50.4	51.4		

Customer Id: CARCOLOH Sample No.: KCP50030 Lab Number: 05632365 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

14 Jul 2021 Diag: Angela Borella





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 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.



03 Feb 2021 Diag: Don Baldridge

ISO



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.



13 Mar 2020 Diag: Don Baldridge

ISO



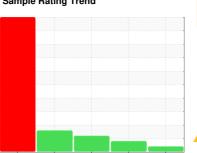
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.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





OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

KAESER SK 20T 5970906 (S/N 1658)

Compressor

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

DIAGNOSIS

Recommendation

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.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

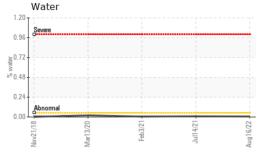
Fluid Condition

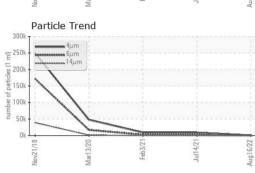
The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

		Nov2018	Mar2020	Feb2021 Jul2021	Aug2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP50030	KCP41891	KCP28346
Sample Date				16 Aug 2022	14 Jul 2021	03 Feb 2021
Machine Age	hrs			45836	36684	32826
Oil Age	hrs			10800	3858	7100
Oil Changed				Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	20	8	11
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	14	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	<1	<1	<1
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	2	6	<1
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	23500	18310	20714	18169
CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.05	0.006	0.009	0.005
ppm Water	ppm	ASTM D6304	>500	66.0	96.2	54.3
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		701	9284	9252
Particles >6µm		ASTM D7647	>1300	104	<u>^</u> 2285	<u>▲</u> 2719
Particles >14µm		ASTM D7647	>80	2	<u> </u>	<u>^</u> 208
Particles >21µm		ASTM D7647	>20	1	26	<u>▲</u> 52
Particles >38µm		ASTM D7647	>4	0	2	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/14/9	▲ 18/14	▲ 19/15
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	ma KOH/a	ΔSTM D8045	1.0	0.54	0.456	0.488

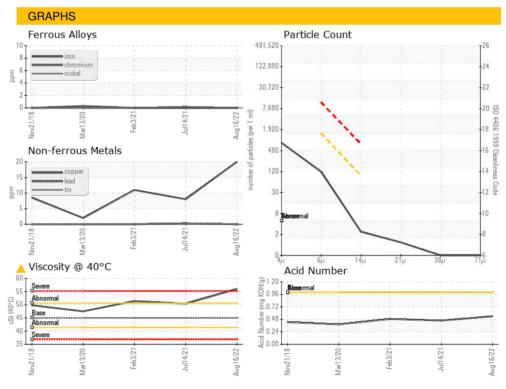


OIL ANALYSIS REPORT





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	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 PROPER	TIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	△ 56.0	50.4	51.4
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number Unique Number : 10116886

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP50030 : 05632365

Received Diagnosed

: 01 Sep 2022 Diagnostician : Don Baldridge

: 03 Sep 2022

Contact: Service Manager

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)

CARMAX 07176

COLUMBUS, OH

USA 43235

T:

F:

2700 FARMERS DR