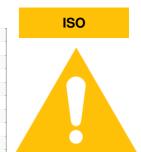


PROBLEM SUMMARY

Sample Rating Trend

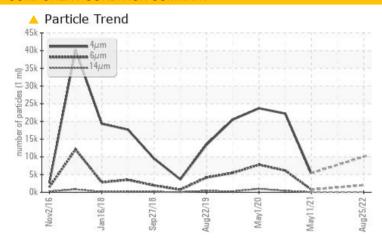


Machine Id KAESER CS 76 1053871 (S/N 1055)

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 RI	ESULTS					
Sample Status			ATTENTION	ABNORMAL	NORMAL	
Particles >6μm	ASTM D7647	>1300	^ 2002		757	
Oil Cleanliness	ISO 4406 (c)	>/17/13	21/18/13		17/13	

Customer Id: DOHPAO Sample No.: KCP49327 Lab Number: 05645526 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@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

24 Feb 2022 Diag: Don Baldridge

VIS DEBRIS



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



11 May 2021 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

26 Aug 2020 Diag: Don Baldridge

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 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



KAESER CS 76 1053871 (S/N 1055)

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

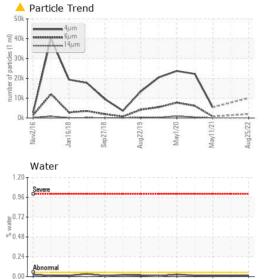
Fluid Condition

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

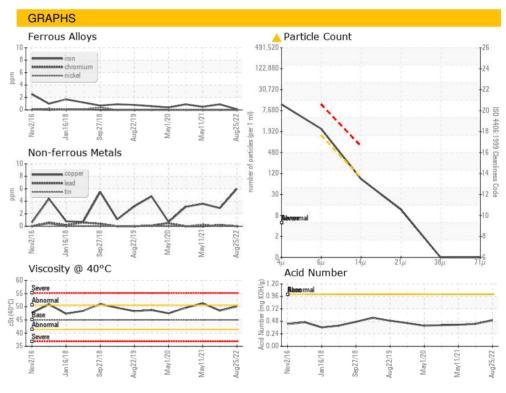
		Nov2016	Jan 2018 Sep 2018	Aug2019 May2020 May2021	Aug2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP49327	KCP43868	KCP33470
Sample Date				25 Aug 2022	24 Feb 2022	11 May 2021
Machine Age	hrs			99453	97957	95491
Oil Age	hrs			6000	2000	4000
Oil Changed				Changed	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<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	<1	<1	1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	6	3	4
Tin	ppm	ASTM D5185m	>10	0	0	<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	0	11
Barium	ppm	ASTM D5185m	90	0	22	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	<1	36	5
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	4	3	0
Zinc	ppm	ASTM D5185m	0	3	14	6
Sulfur	ppm	ASTM D5185m	23500	17046	17217	16353
CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		0	7	3
Potassium	ppm	ASTM D5185m	>20	0	3	0
Water	%	ASTM D6304	>0.05	0.010	0.012	0.010
ppm Water	ppm	ASTM D6304	>500	106.2	120.3	108.5
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		10055		5416
Particles >6µm		ASTM D7647	>1300	<u>^</u> 2002		757
Particles >14μm		ASTM D7647	>80	74		44
Particles >21µm		ASTM D7647	>20	10		13
Particles >38μm		ASTM D7647	>4	0		1
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 21/18/13		17/13
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2



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	▲ MODER	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	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	50.1	48.5	51.3
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						







Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10140065

: KCP49327 : 05645526

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 19 Sep 2022 : 21 Sep 2022

Diagnostician : Jonathan Hester

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) **DOHERTY STEEL INC**

21110 W 311TH ST PAOLA, KS USA 66071

Contact: SERVICE MANAGER

T: F: