

PROBLEM SUMMARY

Sample Rating Trend



Machine Id

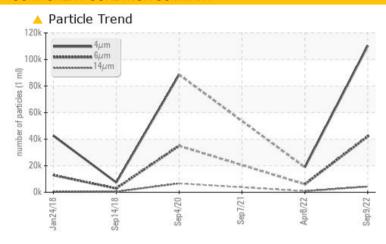
KAESER CSD 75T 5945025 (S/N 1172)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



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.

PROBLEMATIC TEST RESULTS							
Sample Status		ABNORMA	AL ABNORMAL	ABNORMAL			
Particles >6μm	ASTM D7647 >	1300 42049	▲ 6029				
Particles >14µm	ASTM D7647 >8	4289	▲ 837				
Particles >21µm	ASTM D7647 >2	20 △ 699	<u>^</u> 280				
Particles >38µm	ASTM D7647 >4	4 🔺 12	<u> </u>				
Oil Cleanliness	ISO 4406 (c) >-	/17/13 24/23/1 9	20/17				

Customer Id: MILCOL Sample No.: KCP45999 Lab Number: 05648917 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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

08 Apr 2022 Diag: Doug Bogart

ISO



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. 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.



07 Sep 2021 Diag: Don Baldridge

VIS DEBRIS



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. 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.

view report

04 Sep 2020 Diag: Don Baldridge

VISCOSITY



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. All component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id

KAESER CSD 75T 5945025 (S/N 1172)

Component

Compressor

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 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.

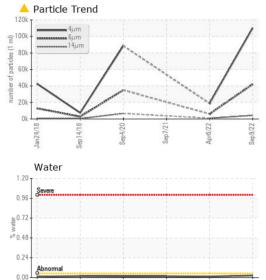
		Jan2018	Sep2018 Sep2020	Sep2021 Apr2022	Sep2022	
SAMPLE INFORM	AATIONI					history O
	IATION	method	limit/base	current	history 1	history 2
Sample Number				KCP45999	KCP45234	KCP37654
Sample Date				09 Sep 2022	08 Apr 2022	07 Sep 2021
Machine Age	hrs			24010	21721	19515
Oil Age	hrs			2289	3200	3892
Oil Changed				Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	2	2	2
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	1	<1	<1
Aluminum	ppm	ASTM D5185m	>10	2	2	5
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	11	5	11
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	0	16
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	39	20	10
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	20	2	1
Zinc	ppm	ASTM D5185m	0	65	20	19
Sulfur	ppm	ASTM D5185m	23500	23110	16947	17812
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	2	<1	<1
Sodium	ppm	ASTM D5185m		17	6	5
Potassium	ppm	ASTM D5185m	>20	7	2	<1
Water	%	ASTM D6304	>0.05	0.025	0.013	0.016
ppm Water	ppm	ASTM D6304	>500	250.8	136.5	161.8
FLUID CLEANLIN	ESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		110285	18844	
Particles >6µm		ASTM D7647	>1300	42049	▲ 6029	
Particles >14µm		ASTM D7647	>80	4289	<u>▲</u> 837	
Particles >21µm		ASTM D7647	>20	^ 699	▲ 280	
Particles >38µm		ASTM D7647	>4	<u> </u>	▲ 11	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>4</u> 24/23/19	<u>^</u> 20/17	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2

0.49

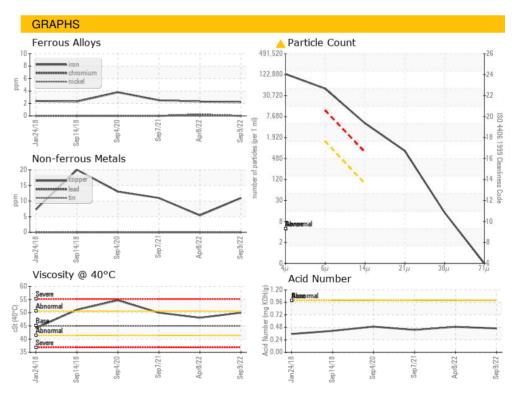
0.431



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	LIGHT	NONE	▲ MODER
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	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	50.0	48.1	50.0
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number Unique Number : 10143456

: 05648917

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP45999

Received Diagnosed

: 22 Sep 2022 : 26 Sep 2022

Diagnostician : Angela Borella

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)

MILLWOOD INC 1886 WILLIAMS RD COLUMBUS, OH

USA 43207

Contact: Service Manager

T: F: