

PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

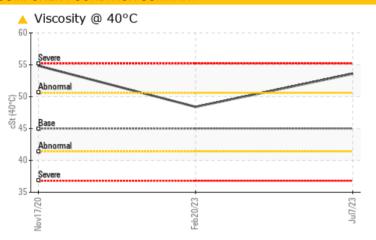
KAESER 5082053

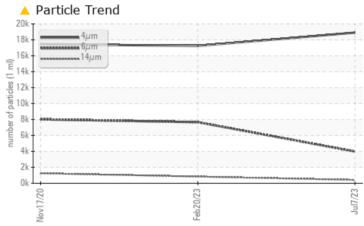
Component

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 T	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm		ASTM D7647	>1300	<u>△</u> 3981	<u>^</u> 7665	<u>▲</u> 8025
Particles >14μm		ASTM D7647	>80	416	▲ 836	<u>▲</u> 1253
Particles >21µm		ASTM D7647	>20	187	<u>125</u>	<u> </u>
Particles >38μm		ASTM D7647	>4	25	4	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 21/19/16	<u>▲</u> 21/20/17	<u>^</u> 20/17
Visc @ 40°C	cSt	ASTM D445	45	▲ 53.6	48.4	△ 54.85

Customer Id: CITCUL Sample No.: KCPA004648 Lab Number: 05898646 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

20 Feb 2023 Diag: Jonathan Hester

ISO



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.



17 Nov 2020 Diag: Jonathan Hester

VISCOSITY



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





OIL ANALYSIS REPORT

Sample Rating Trend



KAESER 5082053

Component

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

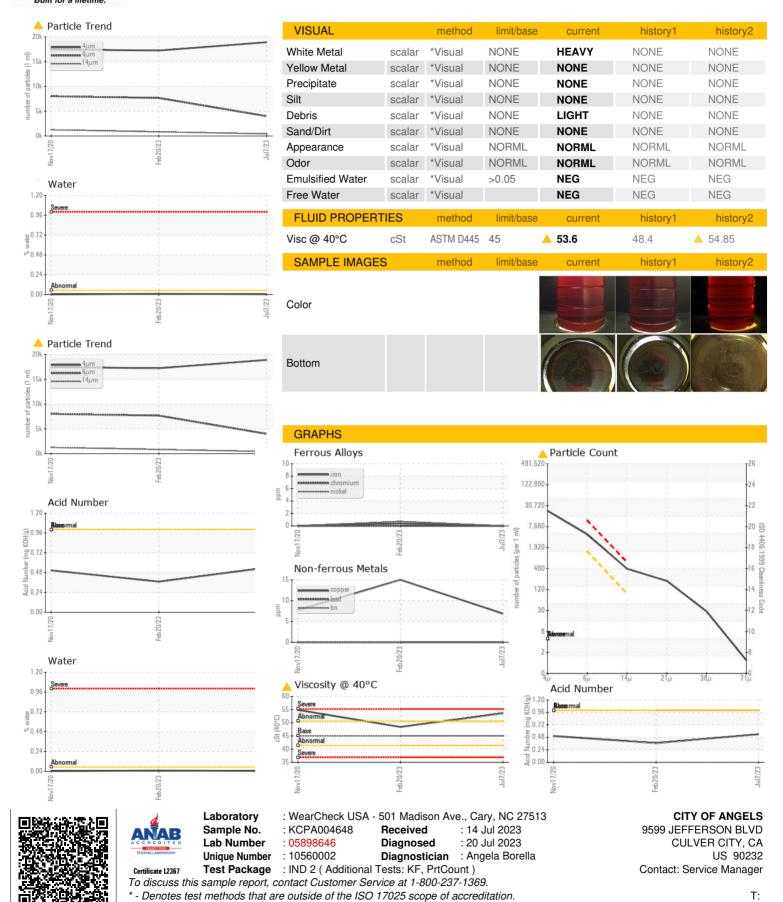
Fluid Condition

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

		No	2020	Feb 2023 Jul 202	3	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA004648	KCP46243	KCP29984
Sample Date		Client Info		07 Jul 2023	20 Feb 2023	17 Nov 2020
Machine Age	hrs	Client Info		52498	49278	32540
Oil Age	hrs	Client Info		34002	49278	32540
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	7	15	8
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	8
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	2	<1	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	9	<1	4
Zinc	ppm	ASTM D5185m	0	0	18	0
Sulfur	ppm	ASTM D5185m	23500	21352	20230	15346
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	2
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.05	0.005	0.009	0.003
ppm Water	ppm	ASTM D6304	>500	55.8	96.2	35.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		18914	17241	17464
Particles >6µm		ASTM D7647		4 3981	^ 7665	▲ 8025
Particles >14µm		ASTM D7647	>80	<u>416</u>	<u>836</u>	<u>1253</u>
Particles >21µm		ASTM D7647	>20	<u> </u>	<u>125</u>	▲ 362
Particles >38µm		ASTM D7647	>4	<u>^</u> 25	4	<u>13</u>
Particles >71μm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>21/19/16</u>	<u>\$\text{21/20/17}\$</u>	▲ 20/17
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.54	0.37	0.507



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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