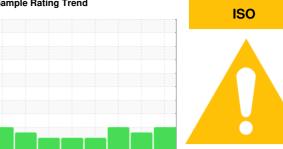


OIL ANALYSIS REPORT

Sample Rating Trend



KAESER SM 11 2028648 (S/N 1241)

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

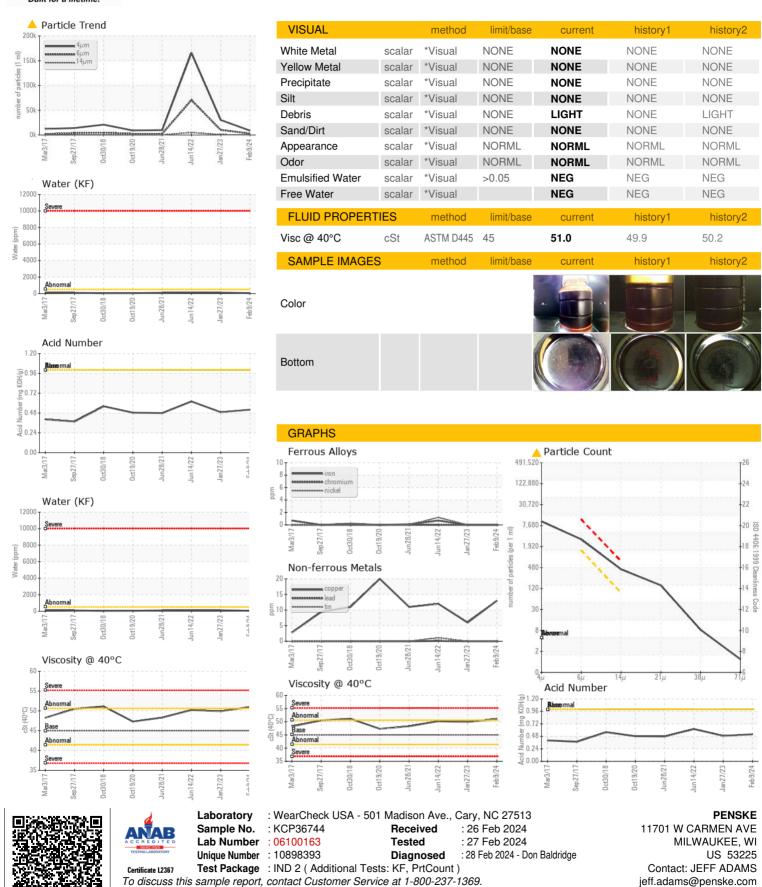
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Mar2017 8	ep2017 Oct2018 Oct20.	20 Jun2021 Jun2022 Jan2023	Feb2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP36744	KCP55757	KCP50850
Sample Date		Client Info		09 Feb 2024	27 Jan 2023	14 Jun 2022
Machine Age	hrs	Client Info		95671	88341	83638
Oil Age	hrs	Client Info		6000	5000	3500
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	2
Aluminum	ppm	ASTM D5185m	>10	0	0	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	13	6	12
Tin	ppm	ASTM D5185m	>10	0	0	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<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	0	0	<1
Calcium	ppm	ASTM D5185m	0	0	0	2
Phosphorus	ppm	ASTM D5185m	0	0	3	9
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	23500	15062	17300	22380
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.05	0.005	0.012	0.011
ppm Water	ppm	ASTM D6304	>500	58	125.2	117.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		8769	30300	165467
Particles >6µm		ASTM D7647	>1300	<u>^</u> 2709	▲ 10092	<u>^</u> 70364
Particles >14μm		ASTM D7647	>80	<u>▲</u> 375	<u></u> ▲ 654	△ 4916
Particles >21µm		ASTM D7647	>20	<u> </u>	<u>▲</u> 148	<u>▲</u> 1148
Particles >38µm		ASTM D7647	>4	<u> </u>	1	△ 32
Particles >71µm		ASTM D7647	>3	1	0	1
Oil Cleanliness		ISO 4406 (c)	>/17/13	20/19/16	<u>22/21/17</u>	25/23/19
Oil Cleaniness		100 1100 (0)	/ / / / / / / /	20/13/10		20/20/10

0.49



OIL ANALYSIS REPORT



* - 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)

T: F: