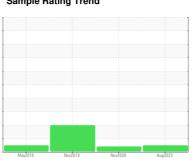


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id KAESER SM 10 6029975 (S/N 2510)

Compressor

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

Recommendation

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.

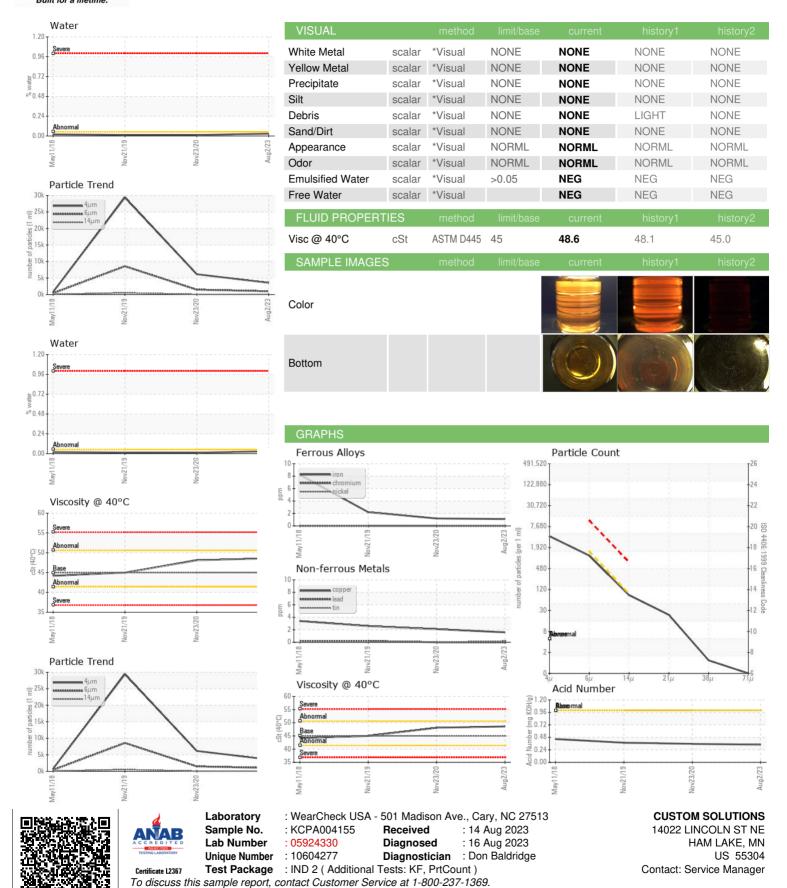
Fluid Condition

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

		May201	8 Nov2019	Nov2020 Au	g2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA004155	KCP31191	KCP23418
Sample Date		Client Info		02 Aug 2023	23 Nov 2020	21 Nov 2019
Machine Age	hrs	Client Info		6606	4027	1946
Oil Age	hrs	Client Info		0	2081	726
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	1	2
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	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	2	2	3
Tin	ppm	ASTM D5185m	>10	<1	0	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	history1	history2
Boron	ppm	ASTM D5185m	0	0	9	0
Barium	ppm	ASTM D5185m	90	12	2	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	85	84	64
Calcium	ppm	ASTM D5185m	0	2	0	2
Phosphorus	ppm	ASTM D5185m	0	4	0	3
Zinc	ppm	ASTM D5185m	0	8	<1	9
Sulfur	ppm	ASTM D5185m	23500	25651	17684	17658
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	0	2
Sodium	ppm	ASTM D5185m		21	20	10
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water	%	ASTM D6304		0.028	0.012	0.013
ppm Water	ppm	ASTM D6304	>500	284.3	124.4	134.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3552	6158	29401
Particles >6µm		ASTM D7647	>1300	986	<u></u> 1478	<u>▲</u> 8573
Particles >14μm		ASTM D7647	>80	73	56	<u></u> 513
Particles >21µm		ASTM D7647	>20	20	10	<u>▲</u> 112
Particles >38µm		ASTM D7647	>4	1	0	<u> </u>
Particles >71μm		ASTM D7647	>3	0	0	<u> 11</u>
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/17/13	△ 18/13	△ 20/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



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* - 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: