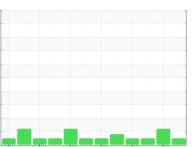


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id KAESER SK 19 1420682 (S/N 01812835)

Compressor

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

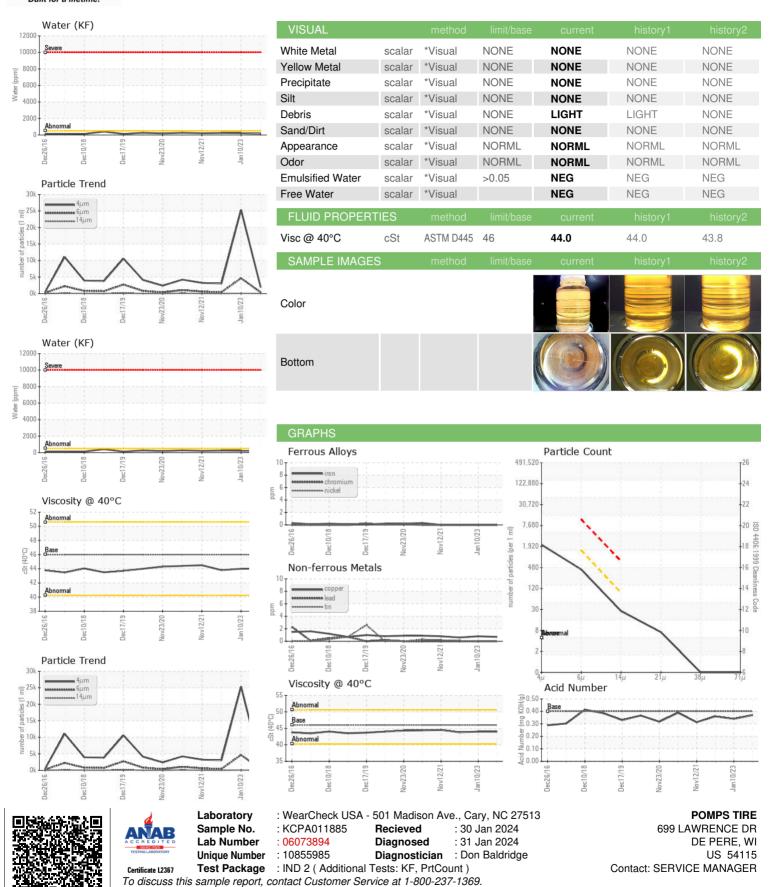
Fluid Condition

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

		Dec2016	Dec2018 Dec2019	Nov2020 Nov2021 Ja	2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA011885	KCP47555D	KCP40488
Sample Date		Client Info		19 Dec 2023	10 Jan 2023	04 Aug 2022
Machine Age	hrs	Client Info		54825	52319	51214
Oil Age	hrs	Client Info		0	700	1100
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
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	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
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	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	90	54	69	67
Calcium	ppm	ASTM D5185m	2	0	<1	<1
Phosphorus	ppm	ASTM D5185m		0	<1	2
Zinc	ppm	ASTM D5185m		5	0	13
Sulfur	ppm	ASTM D5185m		17771	20679	22226
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		16	18	14
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Water	%	ASTM D6304	>0.05	0.014	0.021	0.024
ppm Water	ppm	ASTM D6304	>500	144	218.7	249.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1901	25353	3025
Particles >6µm		ASTM D7647	>1300	370	<u>4631</u>	407
Particles >14μm		ASTM D7647	>80	24	8 3	17
Particles >21µm		ASTM D7647	>20	6	14	4
Particles >38µm		ASTM D7647	>4	0	1	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/12	<u>22/19/14</u>	19/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A : 1 N	1/011/	4 OT1 4 D 00 4 F	0 1		0.04	



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: