

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER SM 10 4661856 (S/N 1463)

Component Compressor

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

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

The amount and size of particulates present in the system are acceptable.

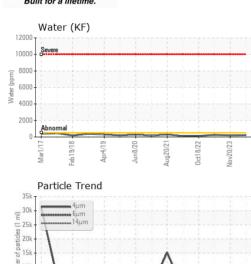
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

		Mar2017 Fe	b2018 Apr2019 Jun	2020 Aug2021 Oct2022 1	lov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017840	KCPA010705	KCPA001600
Sample Date		Client Info		22 May 2024	20 Nov 2023	17 May 2023
Machine Age	hrs	Client Info		11212	10575	9950
Oil Age	hrs	Client Info		637	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	4	1	3
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	2	<1	1
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	24	36	47
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	100	6	77	83
Calcium	ppm	ASTM D5185m	0	5	<1	<1
Phosphorus	ppm	ASTM D5185m	0	20	0	0
Zinc	ppm	ASTM D5185m	0	1	0	9
Sulfur	ppm	ASTM D5185m	23500	12387	18196	20775
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		5	4	13
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>0.05	0.021	0.018	0.025
ppm Water	ppm	ASTM D6304	>500	216	189	259.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		773	5628	9372
Particles >6µm		ASTM D7647	>1300	129	<u>^</u> 2099	2930
Particles >14µm		ASTM D7647	>80	12	<u>^</u> 293	<u></u> 156
Particles >21µm		ASTM D7647	>20	6	<u></u> 88	△ 31
Particles >38µm		ASTM D7647	>4	0	2	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/14/11	<u>^</u> 20/18/15	2 0/19/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.32	0.33	0.39



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. 20.2						
Visc @ 40°C	cSt	ASTM D445	45	45.4	45.3	45.8

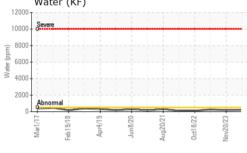
101 Water (KF) 12000

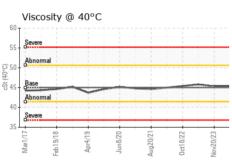
Color

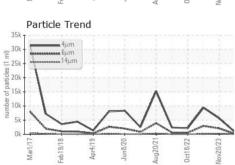
SAMPLE IMAGES

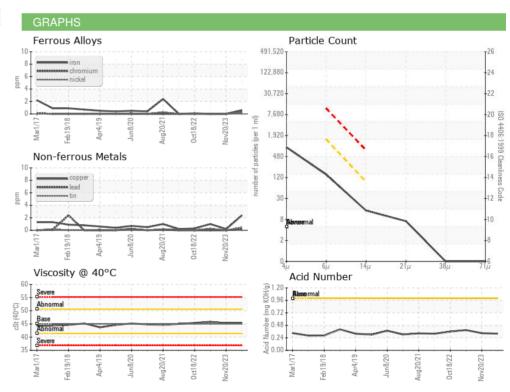
Bottom















Laboratory Sample No.

Unique Number : 11057542

: KCPA017840 Lab Number : 06195419

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested**

: 31 May 2024 Diagnosed

: 31 May 2024 - Angela Borella

PRATT & WHITNEY 2701 REGENT BLVD DALLAS, TX US 75261 Contact: SERVICE MANAGER

Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate 12367 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)

F: Contact/Location: SERVICE MANAGER ? - PRADAL

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