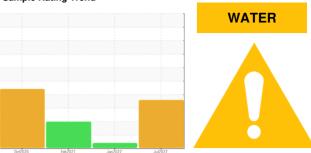


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

7250193 (S/N 1017)Component Compressor

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

All component wear rates are normal.

Contamination

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

Fluid Condition

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

		0 ct2021) Feb2021	Jan2022 J	ul2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC102267	KC96045	KC73462
Sample Date		Client Info		15 Jul 2022	24 Jan 2022	17 Feb 2021
Machine Age	hrs	Client Info		13081	10199	4364
Oil Age	hrs	Client Info		0	2965	4000
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	4	5	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	3	<u> </u>
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>50	32	7	6
Tin	ppm	ASTM D5185m	>10	0	0	<1
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	1	11
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	1	0	4
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		4	6	<1
Zinc	ppm	ASTM D5185m		15	<1	38
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	<1	1
Sodium	ppm	ASTM D5185m		0	2	10
Potassium	ppm	ASTM D5185m	>20	2	0	6
Water	%	ASTM D6304	>0.05	△ 0.255	0.003	0.011
ppm Water	ppm	ASTM D6304	>500	2550	25.3	110.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3430	74601	4494
Particles >6µm		ASTM D7647	>1300	1868	▲ 9278	1334
Particles >14µm		ASTM D7647	>80	▲ 318	65	1 97
Particles >21µm		ASTM D7647	>20	<u> </u>	9	▲ 61
Particles >38µm		ASTM D7647	>4	<u> </u>	0	4
Particles >71µm		ASTM D7647	>3	2	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/18/15	<u>^</u> 20/13	△ 18/15
FLUID DEGRADA						
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

0.43

0.42

0.404



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: KC102267 : 05606045 Unique Number : 10075526

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received :01 Aug 2022 **Tested** : 10 Aug 2022

Diagnosed : 10 Aug 2022 - Doug Bogart

RED LION, PA US 17356 Contact: A. SITLER

175 E WALNUT ST

asitler@rand.whitney.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

RAND-WHITNEY MID ATLANTIC LLC

T:

F: