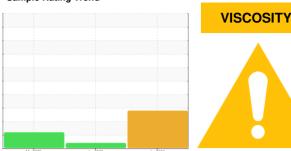


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

1945064 (S/N 1147) Component Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

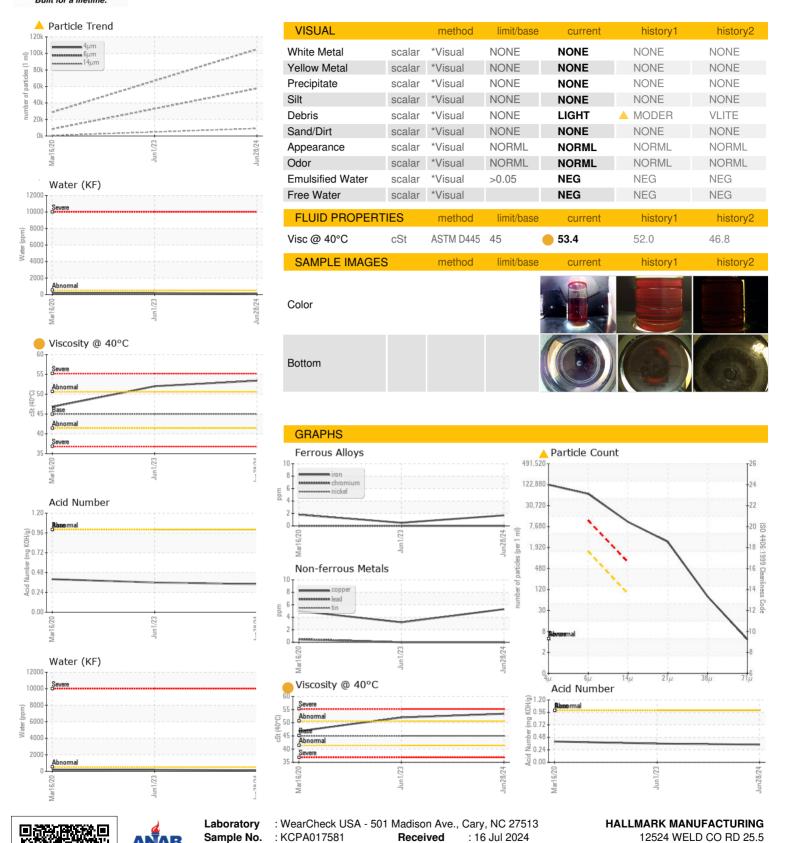
Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Mw2020 Jun2023 Jun2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017581	KCPA003013	KCP14904
Sample Date		Client Info		28 Jun 2024	01 Jun 2023	16 Mar 2020
Machine Age	hrs	Client Info		26971	25904	21472
Oil Age	hrs	Client Info		1067	0	2014
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	2	<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	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	5	3	5
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				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	0	<1
Barium	ppm	ASTM D5185m	90	0	8	28
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	100	18	47	61
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	2	1	0
Zinc	ppm	ASTM D5185m	0	6	2	6
Sulfur	ppm	ASTM D5185m	23500	20252	21337	15437
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	2
Sodium	ppm	ASTM D5185m		4	15	10
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water	%	ASTM D6304	>0.05	0.012	0.018	0.017
ppm Water	ppm	ASTM D6304	>500	127	186.6	177.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		105030		28776
Particles >6µm		ASTM D7647	>1300	<u> </u>		<u></u> 8402
Particles >14μm		ASTM D7647	>80	<u> </u>		△ 647
Particles >21µm		ASTM D7647	>20	<u> </u>		<u>127</u>
Particles >38μm		ASTM D7647	>4	△ 67		5
Particles >71μm		ASTM D7647	>3	<u> </u>		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	4 24/23/20		<u>^</u> 20/17
		(0)				



OIL ANALYSIS REPORT



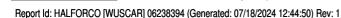
Tested

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Diagnosed

: 17 Jul 2024

: 18 Jul 2024 - Don Baldridge



Certificate 12367

Lab Number

Unique Number : 11127228

: 06238394

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

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

US 80621

T:

F:

FORT LUPTON, CO

info@hallmarkrv.com

Contact: SERVICE MANAGER