

OIL ANALYSIS REPORT

SAMPLE INFORMATION

ISO

history2

7627785 (S/N 1787)

Component

Compressor

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The 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

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

Fluid Condition

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

1			
Feb2022	Aug2023	Jan2024	

OAIVII LE IIVI OTTI	vii (1101)	method	IIIIII/Dase	Current	Thistory	HISTOLYZ
Sample Number		Client Info		KCPA008530	KCPA005106	KCP48658
Sample Date		Client Info		23 Jan 2024	14 Aug 2023	08 Feb 2022
Machine Age	hrs	Client Info		8348	6710	2622
Oil Age	hrs	Client Info		0	0	2622
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	1	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	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	31	30	4
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	79	42	64
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	0	2	14
Zinc	ppm	ASTM D5185m	0	0	2	0
Sulfur	ppm	ASTM D5185m	23500	16812	19777	14965
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		13	2	14
Potassium	ppm	ASTM D5185m	>20	1	2	0
Water	%	ASTM D6304	>0.05	0.011	△ 0.210	0.016
ppm Water	ppm	ASTM D6304	>500	110	<u>^</u> 2100	164.2
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6668	1318	5334
Particles >6μm		ASTM D7647	>1300	<u>^</u> 2786	242	1416
Particles >14μm		ASTM D7647	>80	<u> </u>	23	134
Particles >21µm		ASTM D7647		<u>^</u> 73	4	28
Particles >38µm		ASTM D7647	>4	1	0	2
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/19/16	18/15/12	▲ 18/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

mg KOH/g ASTM D8045 1.0

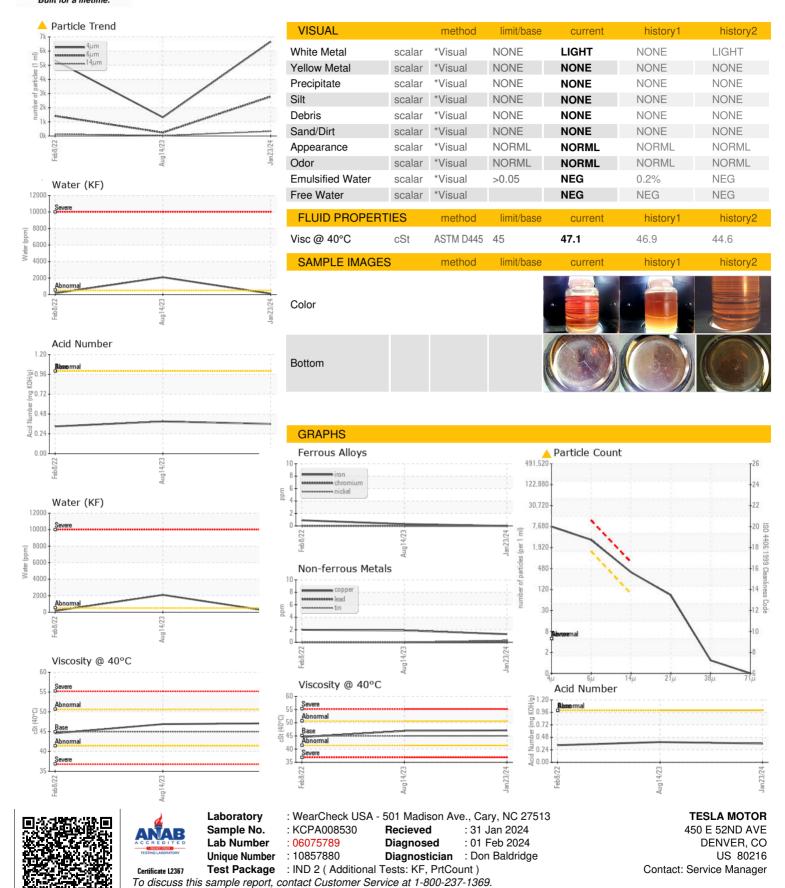
Acid Number (AN)

0.36

0.33



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: