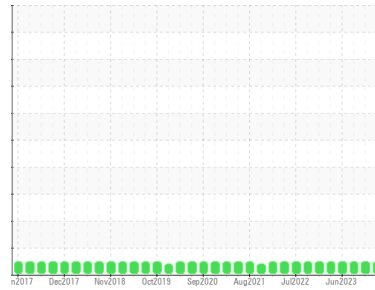




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
KAESER AIR 1 SUL ED2609
 Component
Compressor
 Fluid
USPI MAX FG AIR 46 (20 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. 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 suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USPM37691	USPM30507	USPM29933
Sample Date	Client Info	23 May 2024	06 Dec 2023	26 Sep 2023
Machine Age	hrs Client Info	587	54110	53187
Oil Age	hrs Client Info	0	20700	19777
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>50	0	0	0
Chromium ppm ASTM D5185m	>10	<1	0	0
Nickel ppm ASTM D5185m		0	0	0
Titanium ppm ASTM D5185m		<1	0	0
Silver ppm ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m	>25	0	0	0
Lead ppm ASTM D5185m	>25	0	0	<1
Copper ppm ASTM D5185m	>50	<1	<1	0
Tin ppm ASTM D5185m	>15	0	0	0
Vanadium ppm ASTM D5185m		0	<1	0
Cadmium ppm ASTM D5185m		0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	0	0	0	0
Barium ppm ASTM D5185m	0	<1	0	0
Molybdenum ppm ASTM D5185m	0	0	0	0
Manganese ppm ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m	0	0	0	0
Calcium ppm ASTM D5185m	0	0	0	0
Phosphorus ppm ASTM D5185m	0	1	0	1
Zinc ppm ASTM D5185m	0	2	0	0
Sulfur ppm ASTM D5185m	0	6	45	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>25	<1	<1	<1
Sodium ppm ASTM D5185m		0	0	0
Potassium ppm ASTM D5185m	>20	1	0	<1
Water % ASTM D6304	>0.1	0.014	0.006	0.006
ppm Water ppm ASTM D6304	>1000	140	63	67.0

FLUID CLEANLINESS

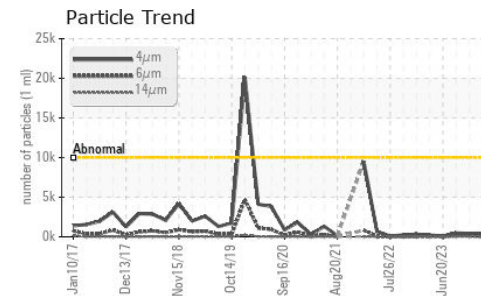
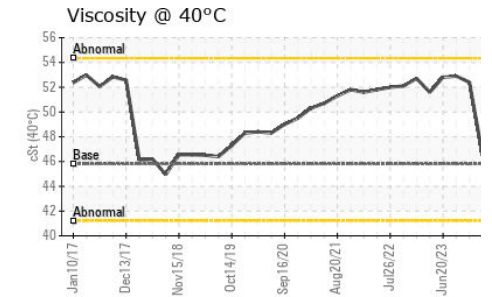
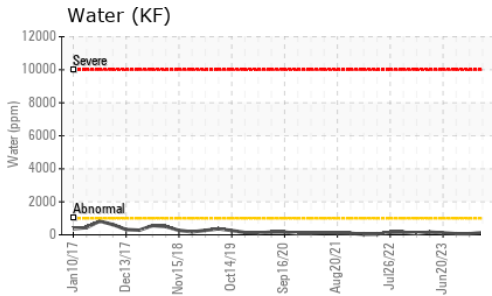
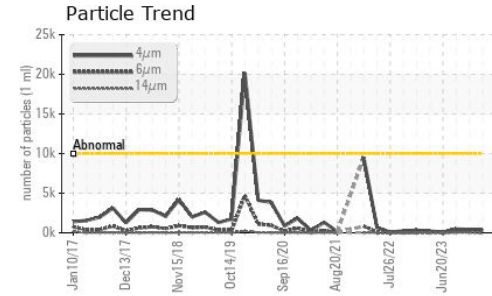
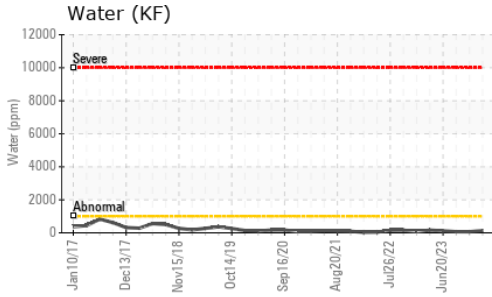
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	304	426	473
Particles >6µm ASTM D7647	>2500	50	202	167
Particles >14µm ASTM D7647	>320	3	29	21
Particles >21µm ASTM D7647	>80	0	7	6
Particles >38µm ASTM D7647	>20	0	0	1
Particles >71µm ASTM D7647	>4	0	0	0
Oil Cleanliness ISO 4406 (c)	>20/18/15	15/13/9	16/15/12	16/15/12

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.16	0.08	0.27	0.26



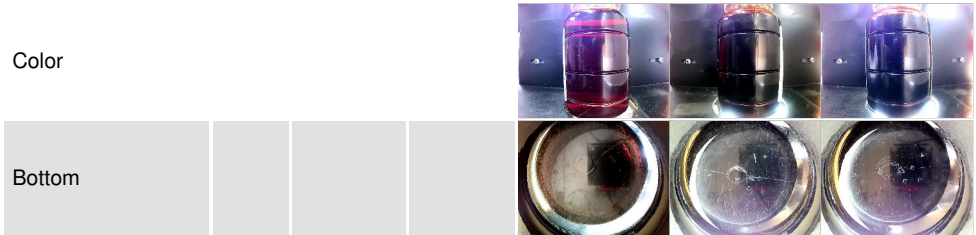
OIL ANALYSIS REPORT



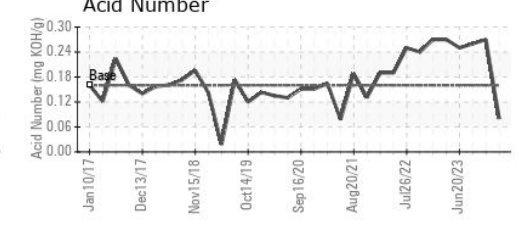
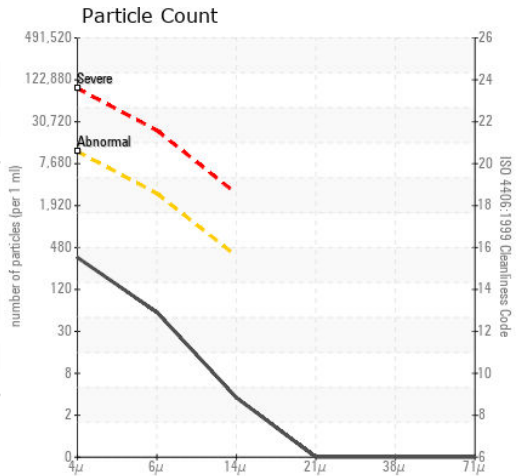
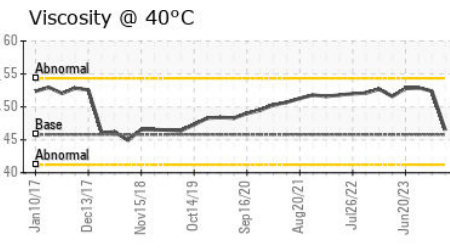
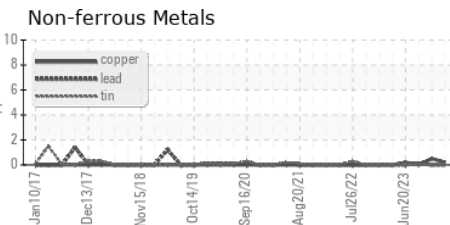
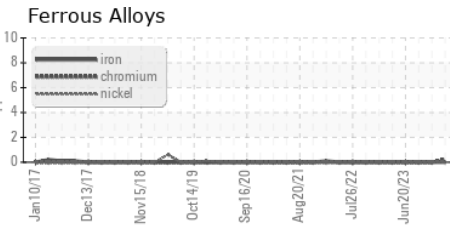
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	45.8	46.5	52.4	52.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : USPM37691
 Lab Number : 06210812
 Unique Number : 11083676
 Test Package : IND 2

Received : 14 Jun 2024
 Tested : 19 Jun 2024
 Diagnosed : 19 Jun 2024 - Doug Bogart

CARGILL

DAYTON, VA
US

Contact: MIKE DUNLAP
mike_dunlap@cargill.com

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: (540)879-2913