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OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER CSD 60 SPECIAL 6006855 (S/N 1315)

Component
Compressor

Fluid
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA015556	KCPA004989	KCP53142
Sample Date		Client Info		19 Mar 2024	11 Jul 2023	13 Jan 2023
Machine Age	hrs	Client Info		55480	49789	45510
Oil Age	hrs	Client Info		3691	0	0
Filter Age	hrs	Client Info		3691	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	0	<1
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	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	3	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

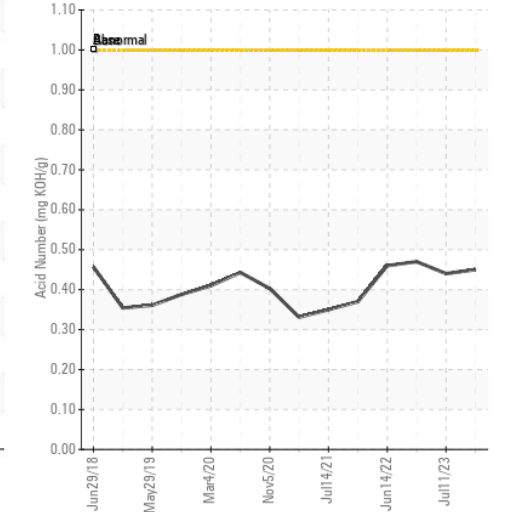
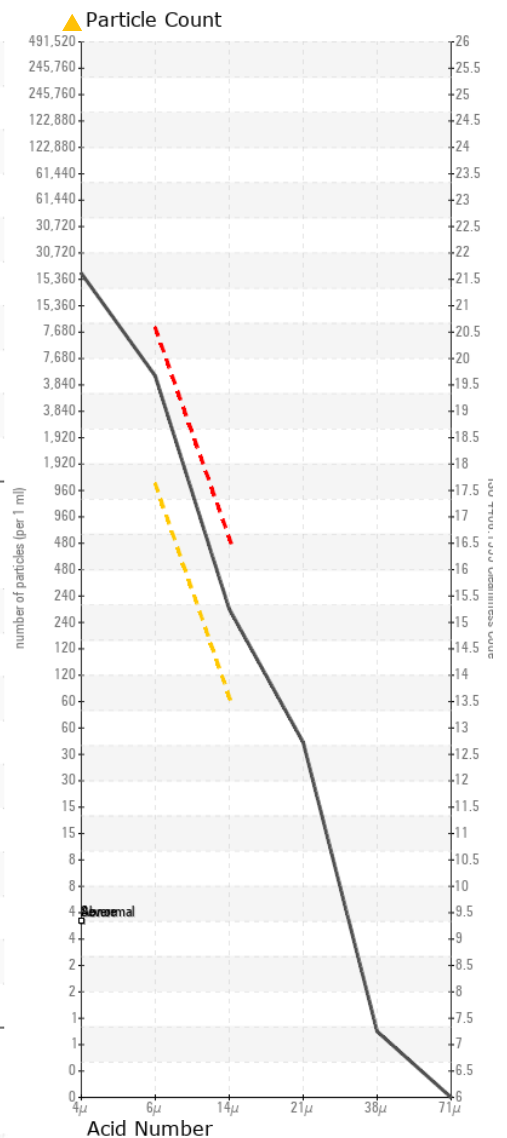
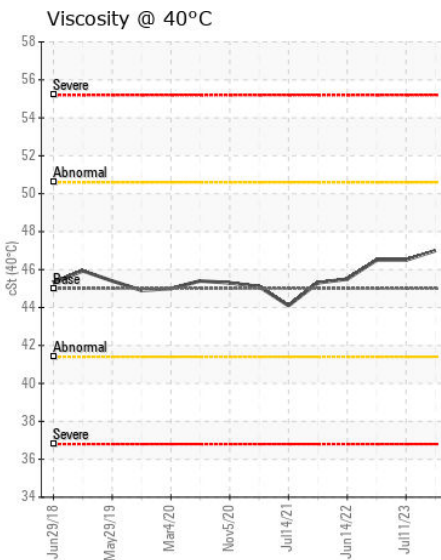
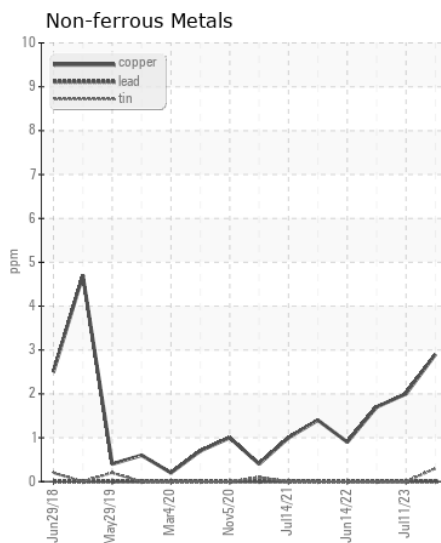
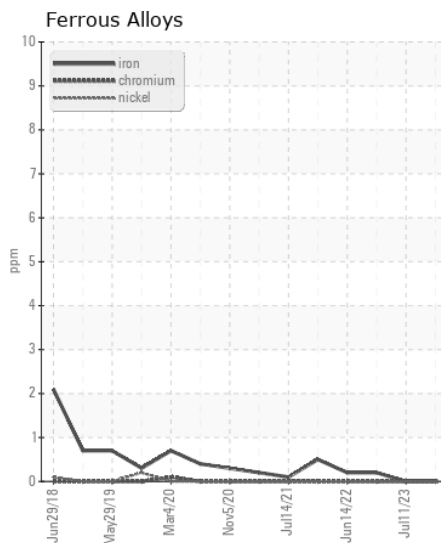
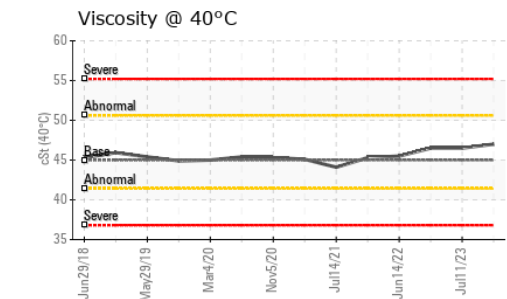
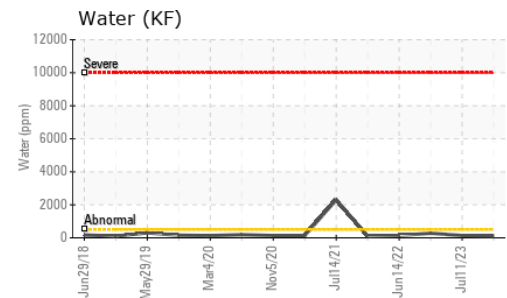
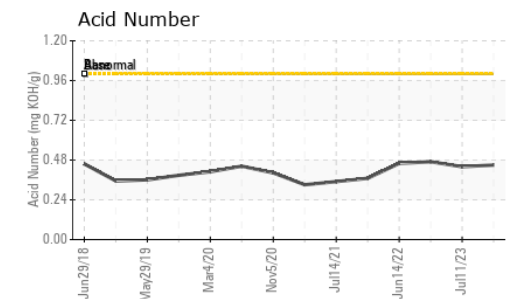
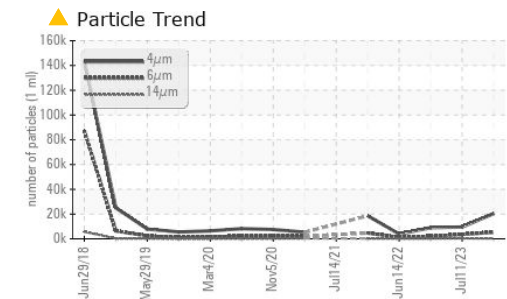
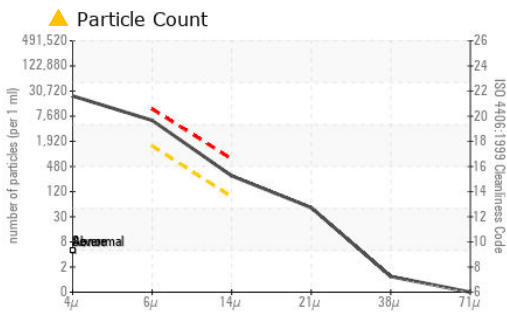
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	0	0	<1
Potassium	ppm	ASTM D5185m	>20	1	2	3
Water	%	ASTM D6304	>0.05	0.009	0.013	0.027
ppm Water	ppm	ASTM D6304	>500	98	137.0	278.0
Particles >4µm		ASTM D7647		20404	9520	9005
Particles >6µm		ASTM D7647	>1300	▲ 5317	▲ 3597	▲ 1994
Particles >14µm		ASTM D7647	>80	▲ 252	▲ 360	▲ 199
Particles >21µm		ASTM D7647	>20	▲ 44	▲ 118	▲ 78
Particles >38µm		ASTM D7647	>4	1	▲ 9	▲ 9
Particles >71µm		ASTM D7647	>3	0	0	▲ 3
Oil Cleanliness		ISO 4406 (c)	>-/17/13	▲ 22/20/15	▲ 20/19/16	▲ 20/18/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		11	0	13
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	38	38	71
Calcium	ppm	ASTM D5185m	0	<1	0	<1
Phosphorus	ppm	ASTM D5185m	0	0	0	4
Zinc	ppm	ASTM D5185m	0	15	17	10
Sulfur	ppm	ASTM D5185m	23500	22310	22910	19364
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.45	0.44	0.47
Visc @ 40°C	cSt	ASTM D445	45	47.0	46.5	46.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA015556 **Received** : 20 Mar 2024
Lab Number : 06123664 **Tested** : 25 Mar 2024
Unique Number : 10937815 **Diagnosed** : 25 Mar 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

U-PULL-AND-PAY LLC - DENVER
 390 WEST 66TH WAY
 DENVER, CO
 US 80221
 Contact: Service Manager

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)

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