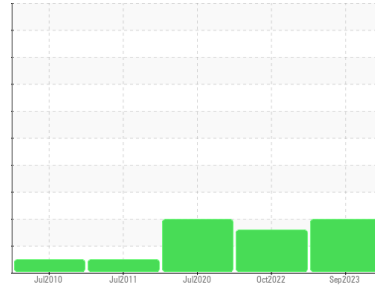




PROBLEM SUMMARY

Sample Rating Trend



ISO



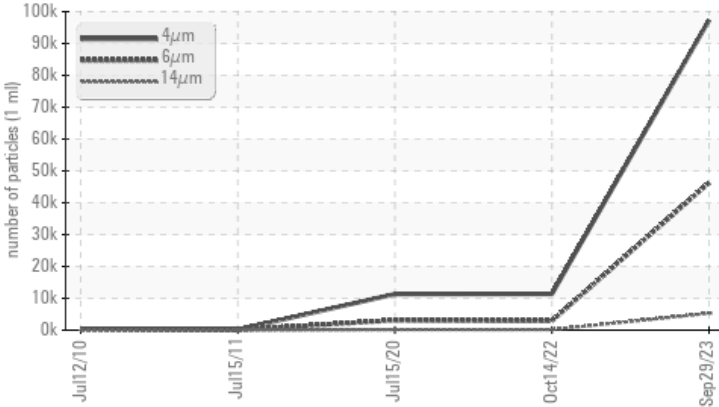
Machine Id
KAESER ASD 30 3458668 (S/N 1469)

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



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.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	Limit	ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 46224	▲ 2906	▲ 3114
Particles >14µm	ASTM D7647	>80	▲ 5269	▲ 168	▲ 162
Particles >21µm	ASTM D7647	>20	▲ 1115	▲ 39	▲ 38
Particles >38µm	ASTM D7647	>4	▲ 34	1	▲ 10
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/23/20	▲ 21/19/15	▲ 19/15

Customer Id: HOYHEN
 Sample No.: KCPA000848
 Lab Number: 05968350
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

14 Oct 2022 Diag: Don Baldrige

ISO



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. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



15 Jul 2020 Diag: Don Baldrige

ISO



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



15 Jul 2011 Diag: Jonathan Hester

CONTAMINANT



We advise that you stop the unit, follow the water drain-off procedure for this component, and service the filters on this component. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. There is a trace of moisture present in the oil. The amount and size of particulates present in the system is acceptable. The condition of oil is suitable for further service.

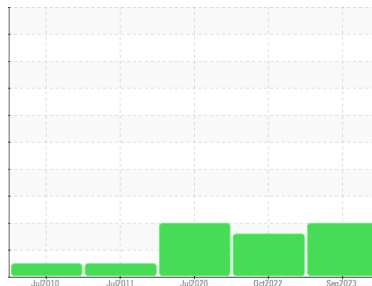
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER ASD 30 3458668 (S/N 1469)

Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KCPA000848	KCP47361	KCP24443
Sample Date	Client Info			29 Sep 2023	14 Oct 2022	15 Jul 2020
Machine Age	hrs	Client Info		28240	26833	21529
Oil Age	hrs	Client Info		0	3192	0
Oil Changed	Client Info			N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	13	15	6
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

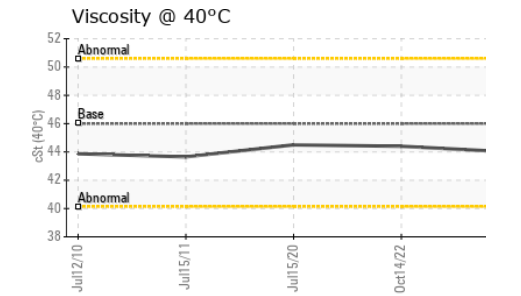
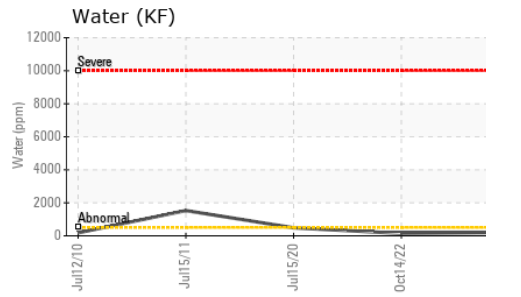
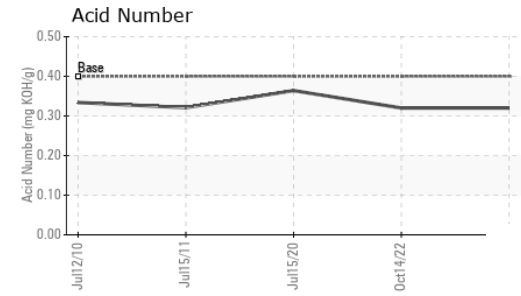
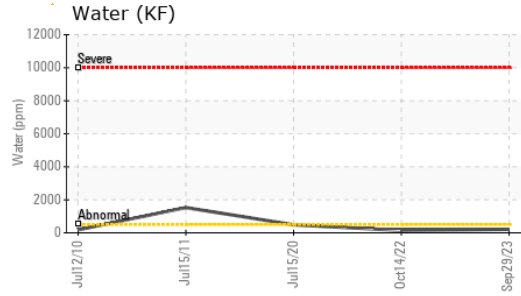
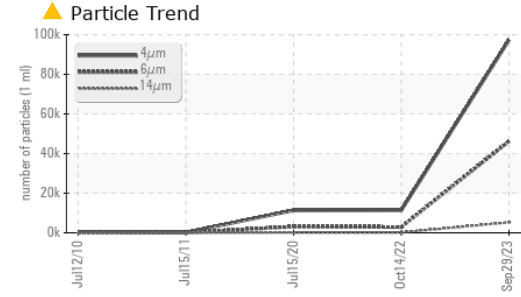
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	30	29	55
Calcium	ppm	ASTM D5185m	2	<1	0	1
Phosphorus	ppm	ASTM D5185m		2	2	12
Zinc	ppm	ASTM D5185m		65	67	26
Sulfur	ppm	ASTM D5185m		20439	21077	15625

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	3
Sodium	ppm	ASTM D5185m		14	12	24
Potassium	ppm	ASTM D5185m	>20	6	3	9
Water	%	ASTM D6304	>0.05	0.021	0.014	0.048
ppm Water	ppm	ASTM D6304	>500	210.2	144.1	486.9

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		97341	11366	11330
Particles >6µm		ASTM D7647	>1300	▲ 46224	▲ 2906	▲ 3114
Particles >14µm		ASTM D7647	>80	▲ 5269	▲ 168	▲ 162
Particles >21µm		ASTM D7647	>20	▲ 1115	▲ 39	▲ 38
Particles >38µm		ASTM D7647	>4	▲ 34	1	▲ 10
Particles >71µm		ASTM D7647	>3	▲ 1	0	▲ 8
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 24/23/20	▲ 21/19/15	▲ 19/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.32	0.32	0.364

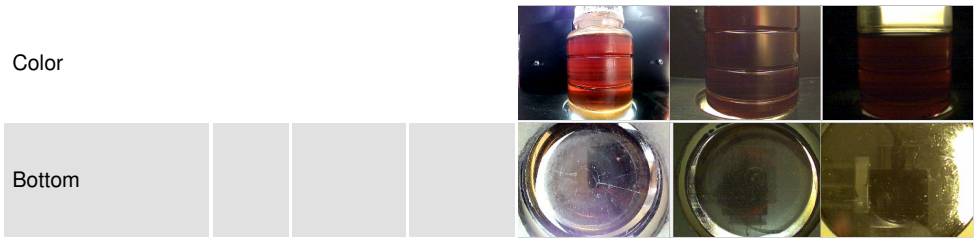
OIL ANALYSIS REPORT



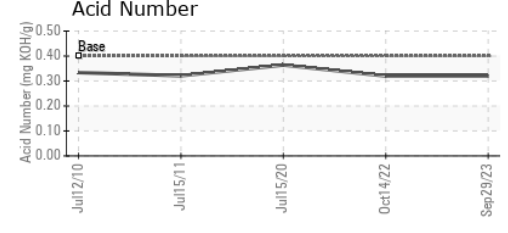
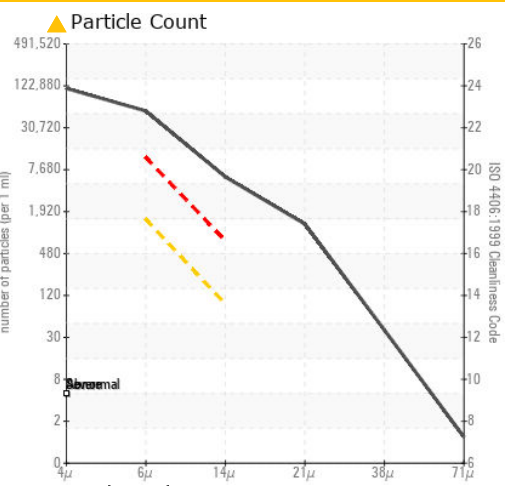
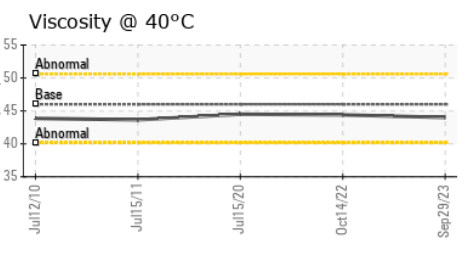
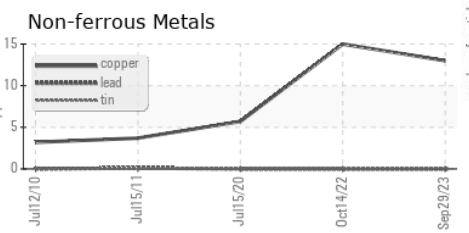
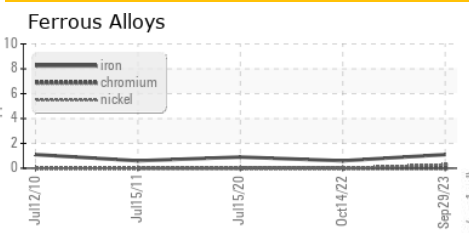
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.0	44.4	44.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA000848 **Received** : 03 Oct 2023
Lab Number : **05968350** **Diagnosed** : 04 Oct 2023
Unique Number : 10674901 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

HOYLES TIRE & AXLE
 175 BEARPOND RD
 HENDERSON, NC
 US 27537
 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)

T:
F: