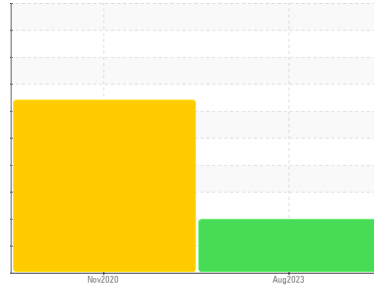




PROBLEM SUMMARY

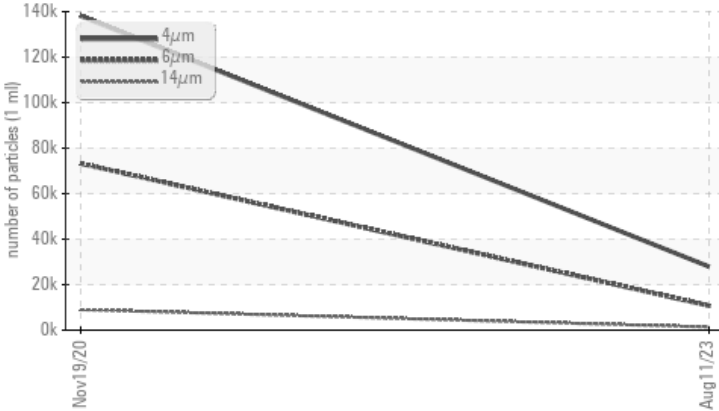
Sample Rating Trend



Machine Id
6383527 (S/N 1083)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

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			ABNORMAL	SEVERE	---
Particles >6µm	ASTM D7647	>1300	▲ 10739	● 73234	---
Particles >14µm	ASTM D7647	>80	▲ 1342	● 8994	---
Particles >21µm	ASTM D7647	>20	▲ 441	● 2110	---
Particles >38µm	ASTM D7647	>4	▲ 18	▲ 36	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/21/18	● 23/20	---

Customer Id: COMCONN
 Sample No.: KCPA005984
 Lab Number: 05928798
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

19 Nov 2020 Diag: Angela Borella

ISO



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.

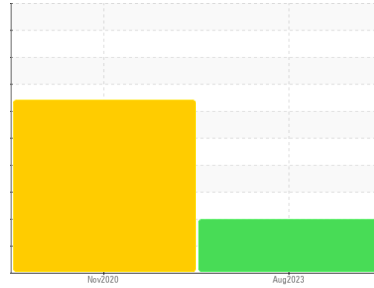
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
6383527 (S/N 1083)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KCPA005984	KCP34902	---
Sample Date	Client Info	11 Aug 2023	19 Nov 2020	---
Machine Age	hrs	24140	10608	---
Oil Age	hrs	0	3000	---
Oil Changed	Client Info	N/A	Changed	---
Sample Status		ABNORMAL	SEVERE	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	2	14	---
Chromium ppm	ASTM D5185m >10	0	0	---
Nickel ppm	ASTM D5185m >3	0	0	---
Titanium ppm	ASTM D5185m >3	0	0	---
Silver ppm	ASTM D5185m >2	0	<1	---
Aluminum ppm	ASTM D5185m >10	<1	0	---
Lead ppm	ASTM D5185m >10	<1	<1	---
Copper ppm	ASTM D5185m >50	13	4	---
Tin ppm	ASTM D5185m >10	0	0	---
Antimony ppm	ASTM D5185m	---	0	---
Vanadium ppm	ASTM D5185m	0	0	---
Cadmium ppm	ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	---
Barium ppm	ASTM D5185m 90	35	63	---
Molybdenum ppm	ASTM D5185m	0	<1	---
Manganese ppm	ASTM D5185m	0	<1	---
Magnesium ppm	ASTM D5185m 90	49	49	---
Calcium ppm	ASTM D5185m 2	41	13	---
Phosphorus ppm	ASTM D5185m	213	21	---
Zinc ppm	ASTM D5185m	222	35	---
Sulfur ppm	ASTM D5185m	8747	17175	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	12	4	---
Sodium ppm	ASTM D5185m	14	9	---
Potassium ppm	ASTM D5185m >20	4	3	---
Water %	ASTM D6304 >0.05	0.018	0.031	---
ppm Water	ASTM D6304 >500	184.3	318.3	---

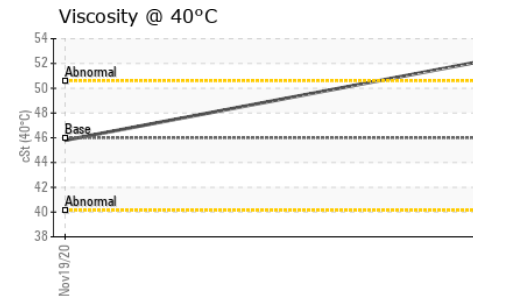
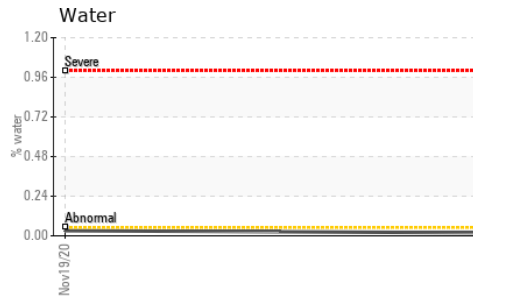
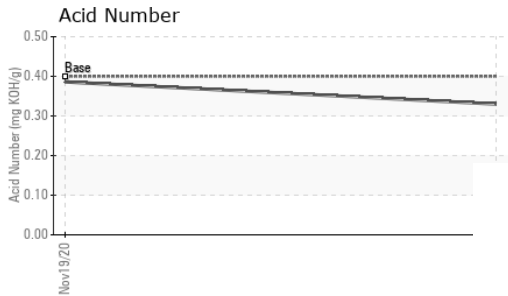
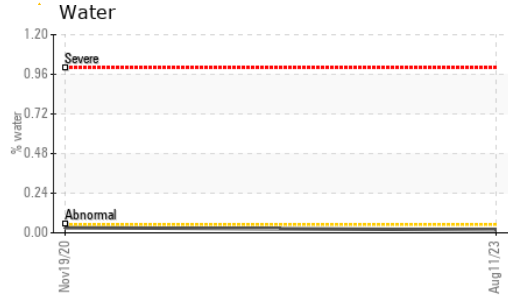
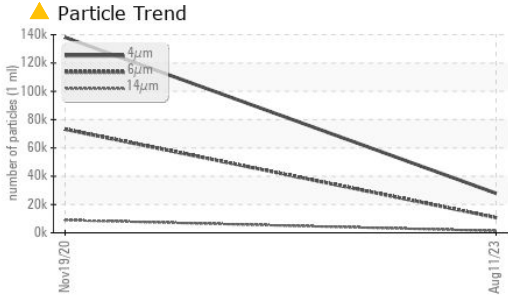
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	27926	138126	---
Particles >6µm	ASTM D7647 >1300	▲ 10739	73234	---
Particles >14µm	ASTM D7647 >80	▲ 1342	8994	---
Particles >21µm	ASTM D7647 >20	▲ 441	2110	---
Particles >38µm	ASTM D7647 >4	▲ 18	36	---
Particles >71µm	ASTM D7647 >3	0	3	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 22/21/18	23/20	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.4	0.33	0.386	---

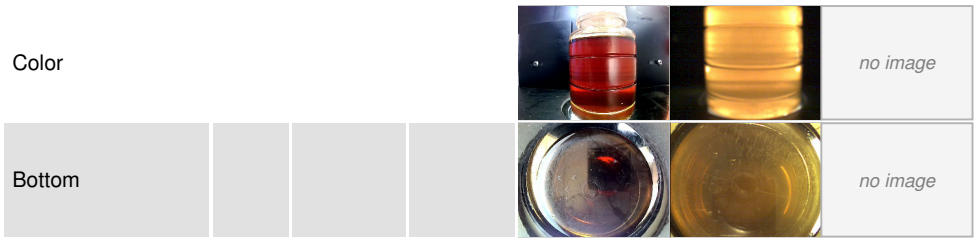
OIL ANALYSIS REPORT



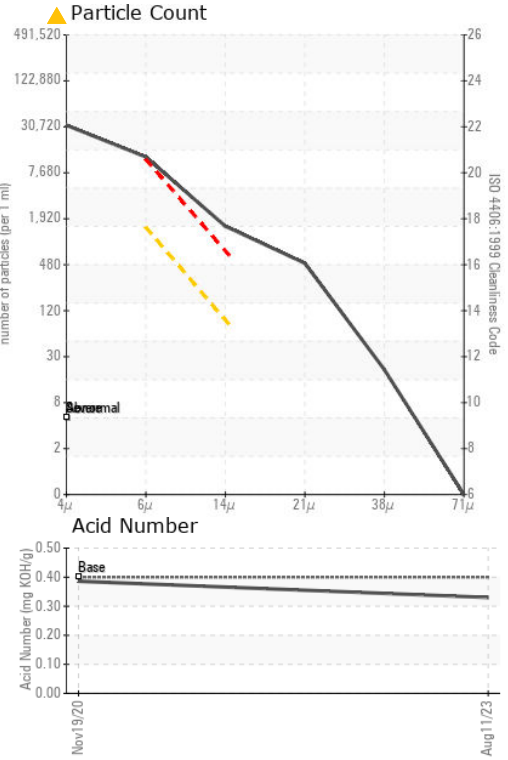
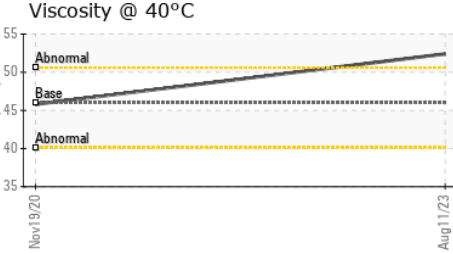
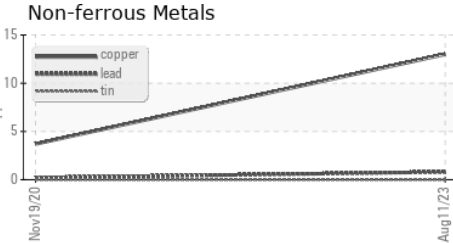
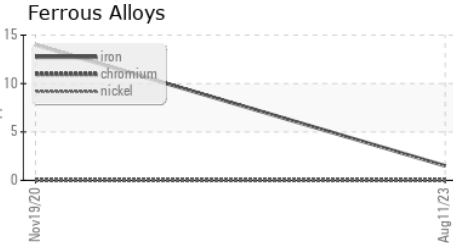
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	52.4	45.8	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA005984 **Received** : 18 Aug 2023
Lab Number : 05928798 **Diagnosed** : 22 Aug 2023
Unique Number : 10608745 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

COMMERCIAL VEHICLE GROUP
 2845 ARMENTROUT DR
 CONCORD, NC
 US 28025
 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)