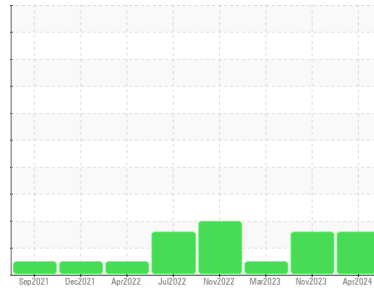




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
7847028 (S/N 1162)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation
 Oil and 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
 Elemental level of silicon (Si) above normal. 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		KC130390	KC06018943	KC106820
Sample Date	Client Info		30 Apr 2024	10 Nov 2023	02 Mar 2023
Machine Age	hrs	Client Info	21866	18757	13233
Oil Age	hrs	Client Info	5835	0	4667
Oil Changed	Client Info		Changed	N/A	Not Chngd
Sample Status			ABNORMAL	ATTENTION	NORMAL

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	0	0	0
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >3	<1	<1	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	27	13	11
Tin	ppm	ASTM D5185m >10	<1	<1	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

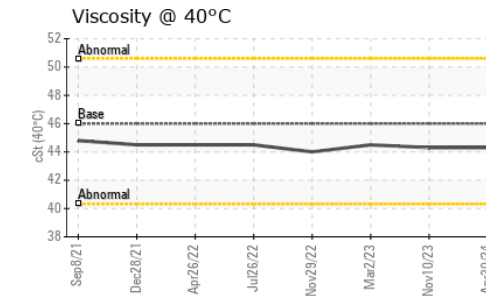
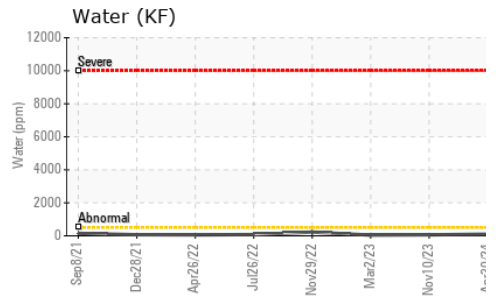
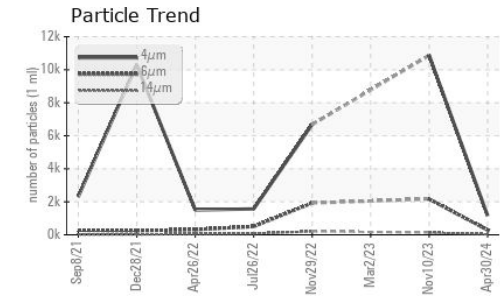
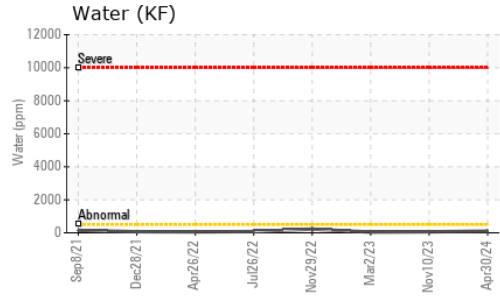
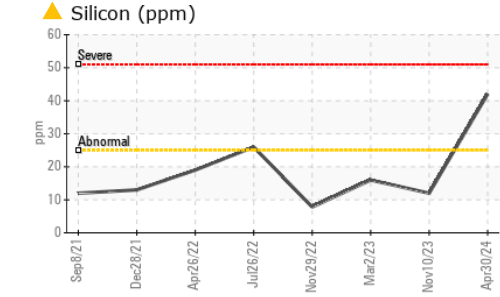
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m 90	2	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m 90	4	10	6
Calcium	ppm	ASTM D5185m 2	<1	1	0
Phosphorus	ppm	ASTM D5185m	2	39	37
Zinc	ppm	ASTM D5185m	4	6	2

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	▲ 42	12	16
Sodium	ppm	ASTM D5185m	4	9	4
Potassium	ppm	ASTM D5185m >20	3	7	2
Water	%	ASTM D6304 >0.05	0.010	0.006	0.004
ppm Water	ppm	ASTM D6304 >500	102	60	42.7

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		1169	10870	---
Particles >6µm	ASTM D7647 >1300		295	● 2167	---
Particles >14µm	ASTM D7647 >80		27	● 134	---
Particles >21µm	ASTM D7647 >20		6	● 41	---
Particles >38µm	ASTM D7647 >4		0	3	---
Particles >71µm	ASTM D7647 >3		0	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		17/15/12	● 21/18/14	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	0.38	0.34	0.43

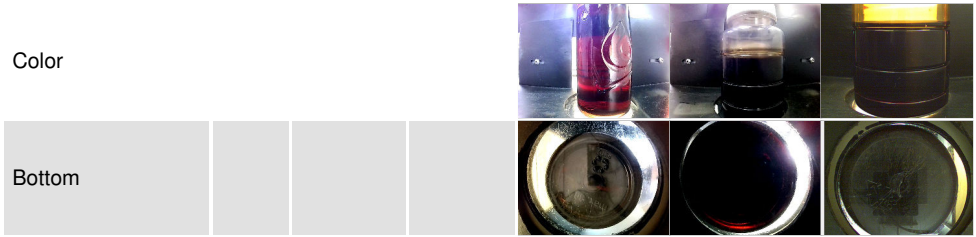
OIL ANALYSIS REPORT



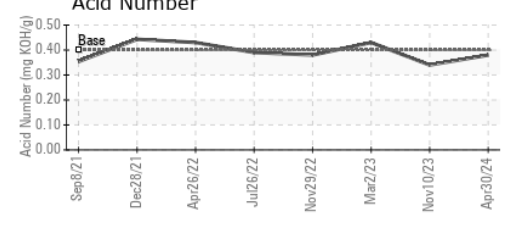
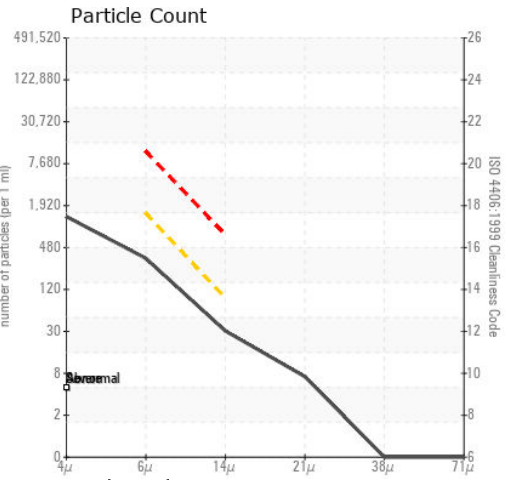
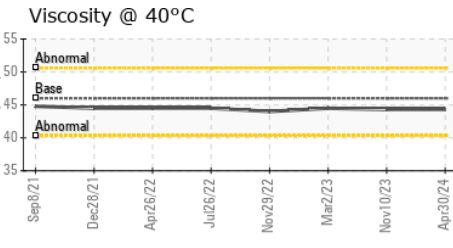
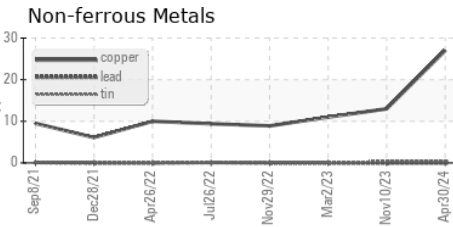
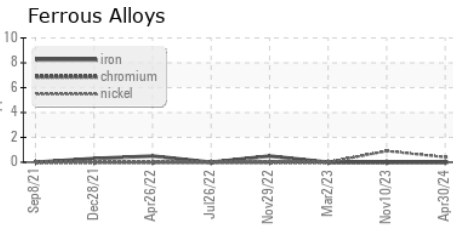
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46	44.3	44.3	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. : KC130390
Lab Number : 06179459
Unique Number : 11030785
Test Package : IND 2
Received : 14 May 2024
Tested : 17 May 2024
Diagnosed : 17 May 2024 - Don Baldrige

YODER INDUSTRIES
 2520 NEEDMORE RD
 DAYTON, OH
 US 45414
 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)