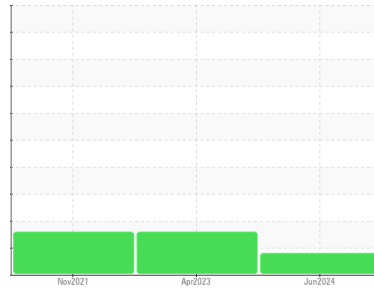




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
6233701 (S/N 1028)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) 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			KCPA020637	KCP53041	KCP39913
Sample Date	Client Info			25 Jun 2024	14 Apr 2023	11 Nov 2021
Machine Age	hrs	Client Info		1933	985	665
Oil Age	hrs	Client Info		948	320	665
Oil Changed	Client Info			Changed	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	2
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	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	▲ 14
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	2	<1	18
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

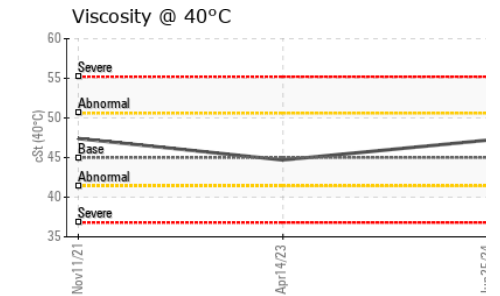
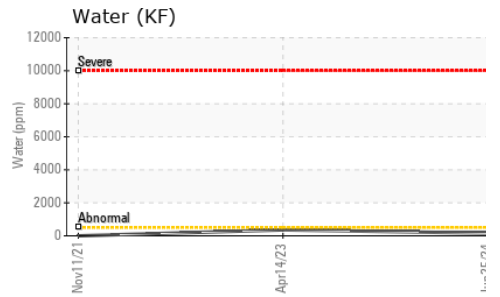
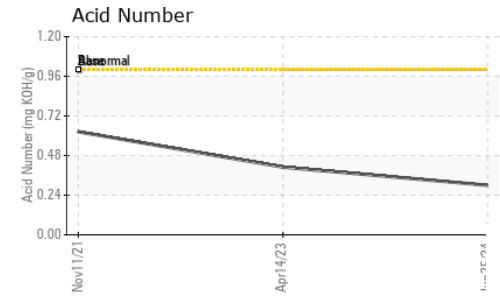
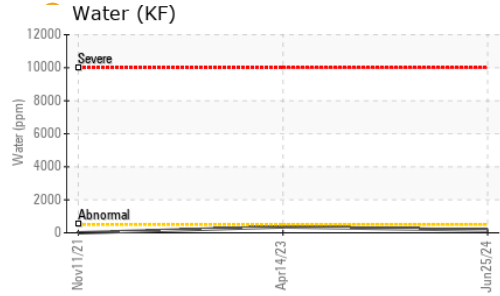
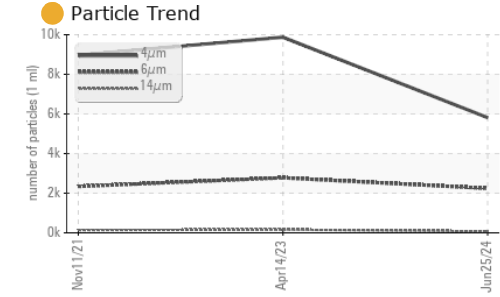
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	15	53	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	76	85	0
Calcium	ppm	ASTM D5185m	0	1	2	0
Phosphorus	ppm	ASTM D5185m	0	2	3	291
Zinc	ppm	ASTM D5185m	0	6	4	221
Sulfur	ppm	ASTM D5185m	23500	21098	19364	1395

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		20	11	0
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>0.05	0.015	0.035	0.001
ppm Water	ppm	ASTM D6304	>500	159	359.4	0.00

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5815	9874	8961
Particles >6µm		ASTM D7647	>1300	● 2244	▲ 2778	● 2340
Particles >14µm		ASTM D7647	>80	74	▲ 159	● 135
Particles >21µm		ASTM D7647	>20	17	▲ 44	25
Particles >38µm		ASTM D7647	>4	2	2	3
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	● 20/18/13	▲ 20/19/14	● 18/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.30	0.41	0.624

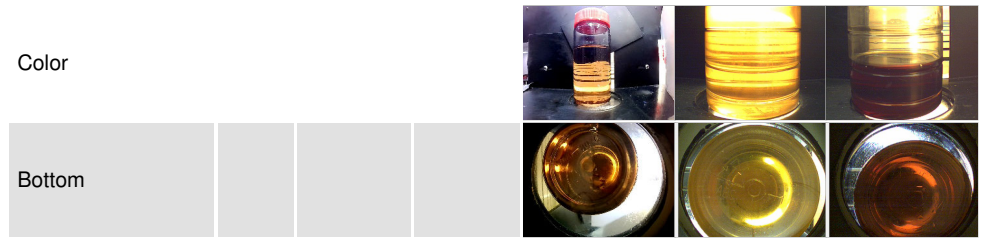
OIL ANALYSIS REPORT



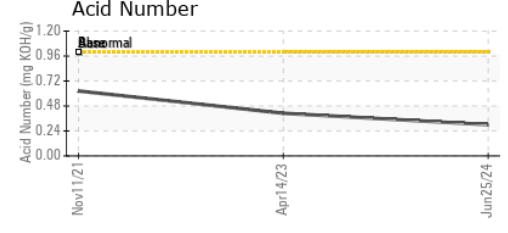
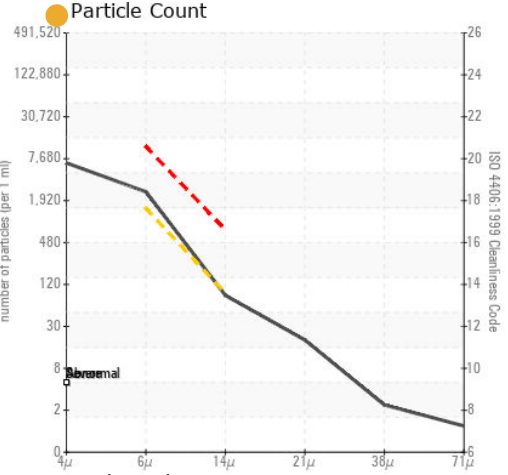
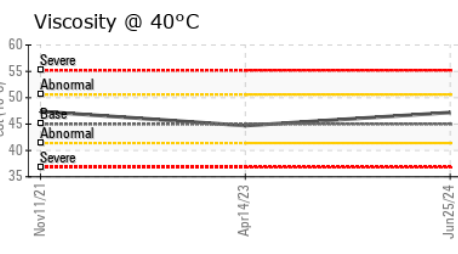
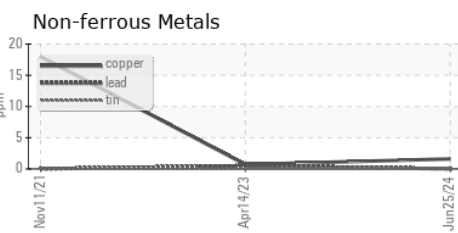
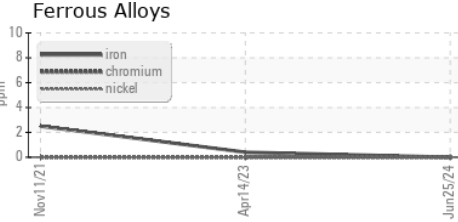
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.2	44.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA020637 **Received** : 15 Jul 2024
Lab Number : 06236832 **Tested** : 17 Jul 2024
Unique Number : 11125666 **Diagnosed** : 17 Jul 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

LANTEX USA LLC
 609 INTERCHANGE BLVD
 NEWARK, DE
 US 19711
 Contact: SHIPPING
 shipping@lantexusa.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)