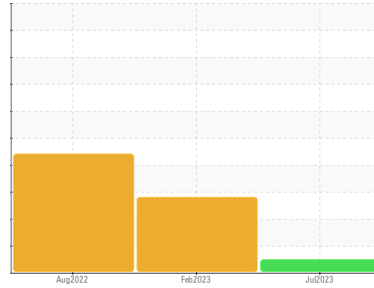




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
8022751 (S/N 1024)

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. 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			KCPA005571	KCP55954	KCP28599
Sample Date	Client Info			26 Jul 2023	13 Feb 2023	23 Aug 2022
Machine Age	hrs	Client Info		5789	3796	2409
Oil Age	hrs	Client Info		0	1400	2409
Oil Changed	Client Info			N/A	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
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	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	2	<1	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

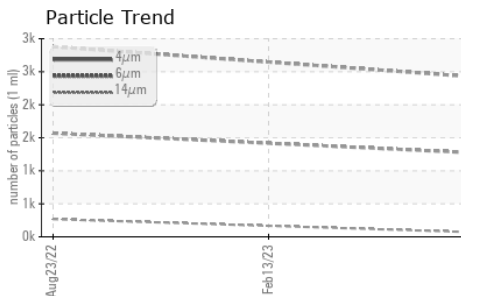
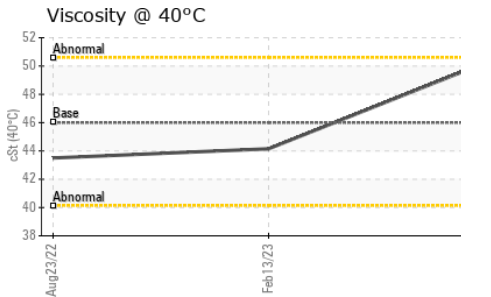
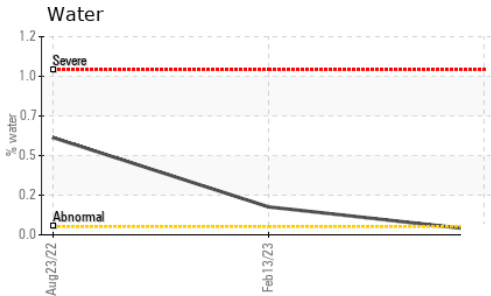
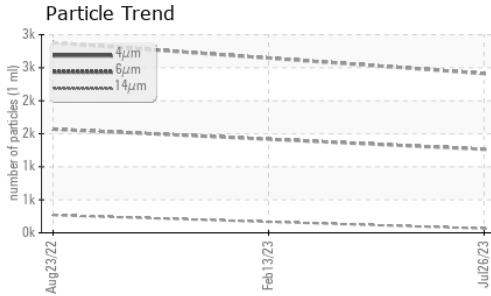
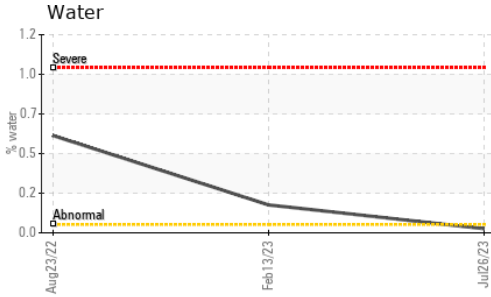
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	5
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	90	37	59	37
Calcium	ppm	ASTM D5185m	2	0	0	1
Phosphorus	ppm	ASTM D5185m		0	2	2
Zinc	ppm	ASTM D5185m		0	0	6
Sulfur	ppm	ASTM D5185m		21633	19190	20163

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		7	3	0
Potassium	ppm	ASTM D5185m	>20	4	9	9
Water	%	ASTM D6304	>0.05	0.025	▲ 0.169	▲ 0.589
ppm Water	ppm	ASTM D6304	>500	253.4	▲ 1690	▲ 5890

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2412	---	2880
Particles >6µm		ASTM D7647	>1300	1264	---	▲ 1569
Particles >14µm		ASTM D7647	>80	65	---	▲ 267
Particles >21µm		ASTM D7647	>20	12	---	▲ 90
Particles >38µm		ASTM D7647	>4	1	---	▲ 14
Particles >71µm		ASTM D7647	>3	0	---	1
Oil Cleanliness		ISO 4406 (c)	>--/17/13	18/17/13	---	▲ 19/18/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.32	0.42	0.38

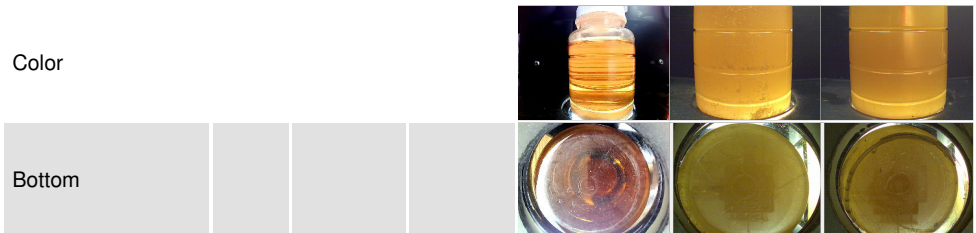
OIL ANALYSIS REPORT



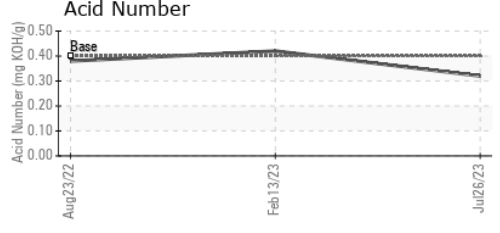
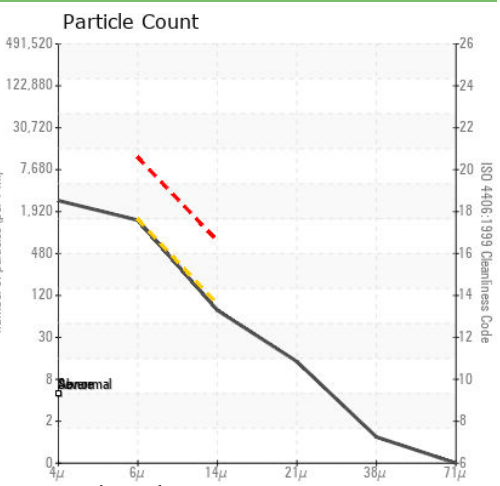
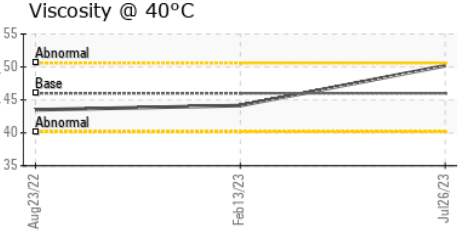
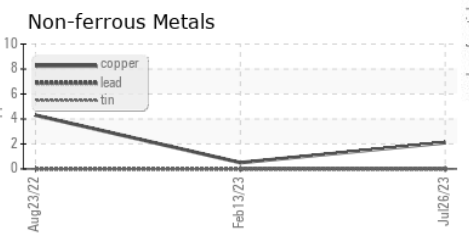
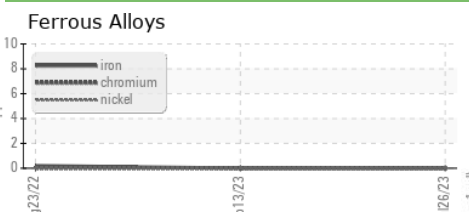
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ HEAVY	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	50.2	44.15

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA005571 **Received** : 25 Aug 2023
Lab Number : 05935390 **Diagnosed** : 28 Aug 2023
Unique Number : 10620661 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

MAPEI CORP
 201 ENTERPRISE DR
 CALHOUN, GA
 US 30701
 Contact: P. COREY
 pcorey@mapei.com
 T:
 F:

Certificate L2367
 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)