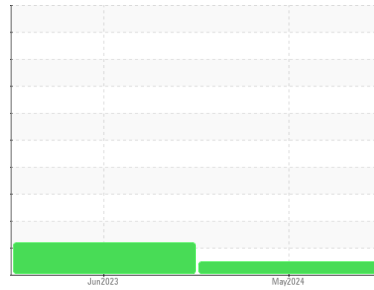




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
8412917 (S/N 2258)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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			KCPA018950	KCPA001981	---
Sample Date	Client Info			31 May 2024	09 Jun 2023	---
Machine Age	hrs Client Info			10864	6991	---
Oil Age	hrs Client Info			3875	0	---
Oil Changed	Client Info			Changed	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>3	0	0	---
Titanium	ppm	ASTM D5185m	>3	<1	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	2	0	---
Lead	ppm	ASTM D5185m	>10	<1	0	---
Copper	ppm	ASTM D5185m	>50	5	7	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

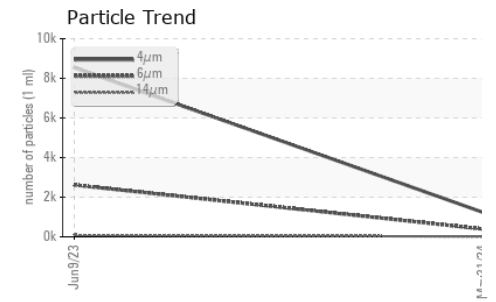
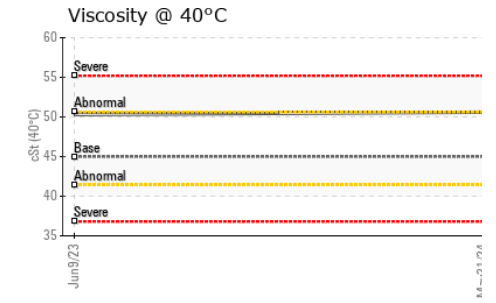
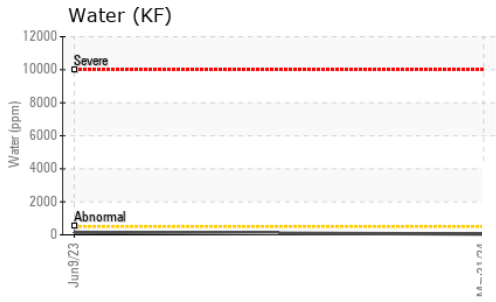
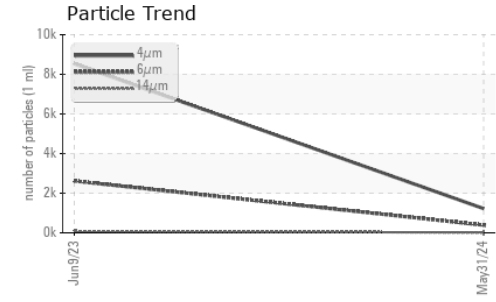
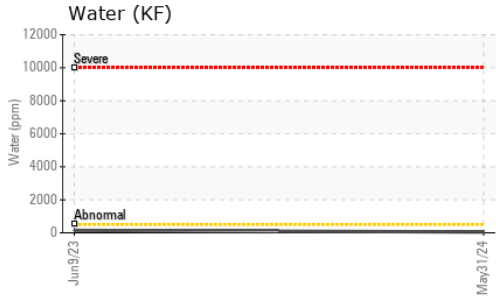
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	---
Barium	ppm	ASTM D5185m	90	8	71	---
Molybdenum	ppm	ASTM D5185m	0	0	0	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	100	21	76	---
Calcium	ppm	ASTM D5185m	0	0	2	---
Phosphorus	ppm	ASTM D5185m	0	7	4	---
Zinc	ppm	ASTM D5185m	0	6	7	---
Sulfur	ppm	ASTM D5185m	23500	20941	23370	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	---
Sodium	ppm	ASTM D5185m		2	22	---
Potassium	ppm	ASTM D5185m	>20	2	11	---
Water	%	ASTM D6304	>0.05	0.004	0.014	---
ppm Water	ppm	ASTM D6304	>500	49	149.1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1223	8536	---
Particles >6µm		ASTM D7647	>1300	389	▲ 2617	---
Particles >14µm		ASTM D7647	>80	10	▲ 89	---
Particles >21µm		ASTM D7647	>20	2	10	---
Particles >38µm		ASTM D7647	>4	1	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	17/16/10	▲ 20/19/14	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.40	---

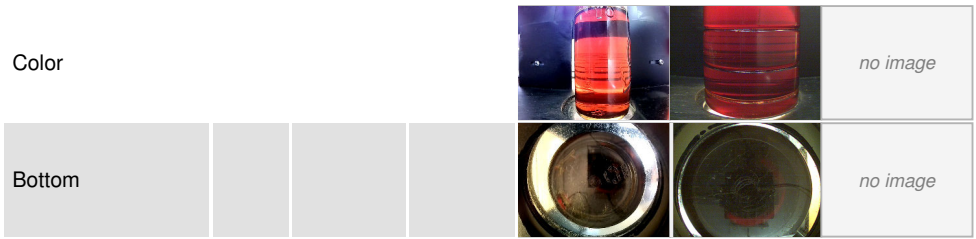
OIL ANALYSIS REPORT



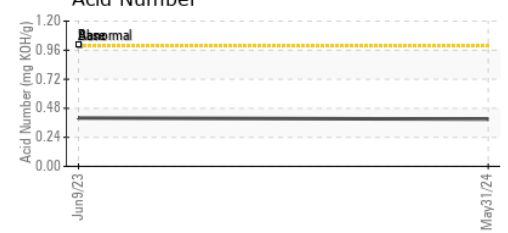
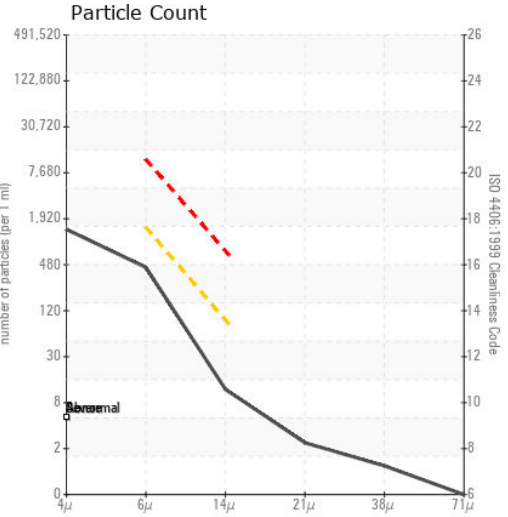
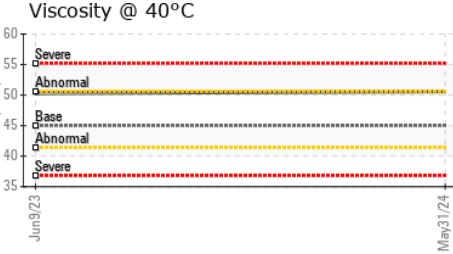
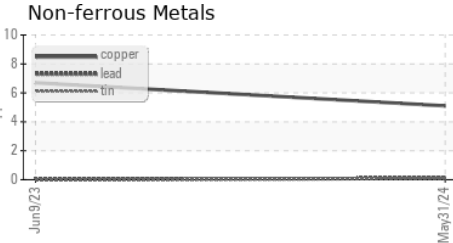
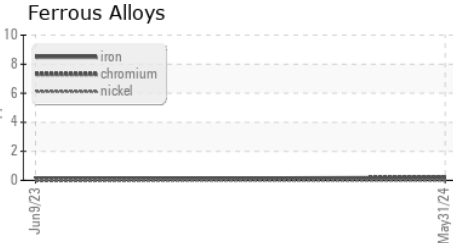
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	45	50.6	50.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA018950 **Received** : 07 Jun 2024
Lab Number : 06203392 **Tested** : 11 Jun 2024
Unique Number : 11070853 **Diagnosed** : 11 Jun 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

PROSOMNUS SLEEP TECHNOLOGIES
 5675 GIBRALTAR DR
 PLEASANTON, CA
 US 94588
 Contact: B. GOFF
 bgoff@prosomnus.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)