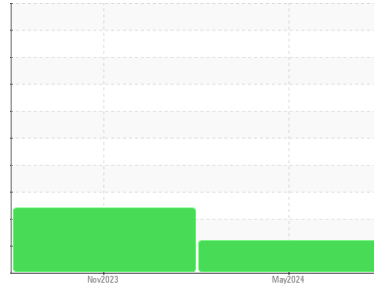


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
SENNEBOGEN 840E MH-82
 Component
Left Swing Drive
 Fluid
AW HYDRAULIC OIL ISO 46 (--- LTR)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

Gear wear is indicated.

● Contamination

There is no indication of any contamination in the oil.

● Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0124482	PCA0112788	---
Sample Date	Client Info			08 May 2024	16 Nov 2023	---
Machine Age	hrs	Client Info		2811	230	---
Oil Age	hrs	Client Info		1000	0	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	---

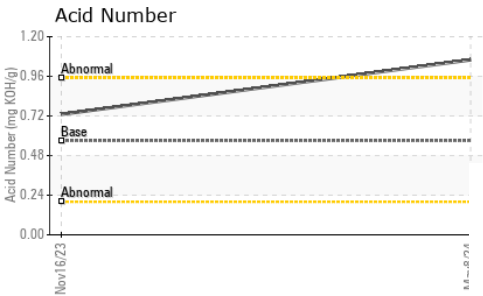
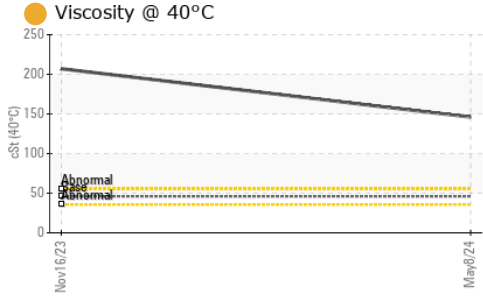
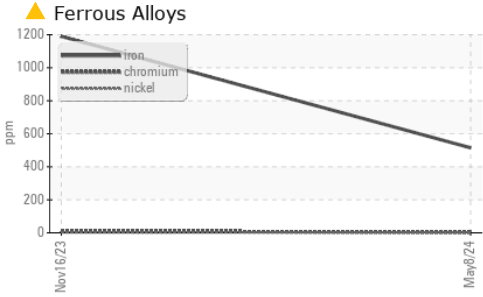
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>400	▲ 515	▲ 1190	---
Chromium	ppm	ASTM D5185m	>10	4	10	---
Nickel	ppm	ASTM D5185m	>10	2	2	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>25	4	<1	---
Lead	ppm	ASTM D5185m	>50	<1	0	---
Copper	ppm	ASTM D5185m	>200	181	▲ 228	---
Tin	ppm	ASTM D5185m	>10	10	▲ 34	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		<1	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	74	14	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	5	2	0	---
Manganese	ppm	ASTM D5185m		4	9	---
Magnesium	ppm	ASTM D5185m	25	7	2	---
Calcium	ppm	ASTM D5185m	200	58	4	---
Phosphorus	ppm	ASTM D5185m	300	463	353	---
Zinc	ppm	ASTM D5185m	370	107	101	---
Sulfur	ppm	ASTM D5185m	2500	9940	5046	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	6	---
Sodium	ppm	ASTM D5185m		5	3	---
Potassium	ppm	ASTM D5185m	>20	3	2	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	1.06	0.73	---

OIL ANALYSIS REPORT



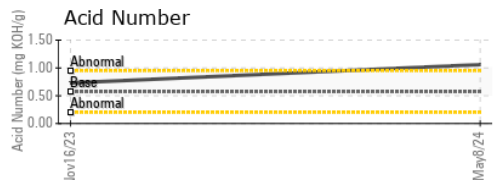
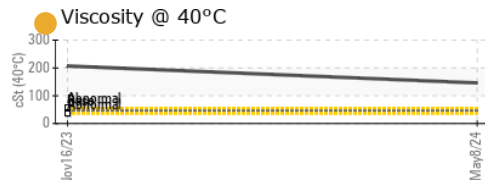
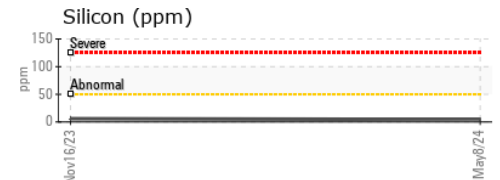
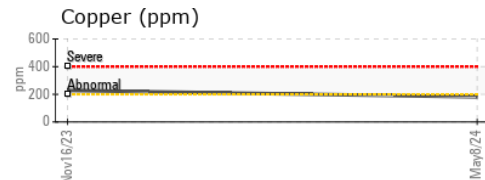
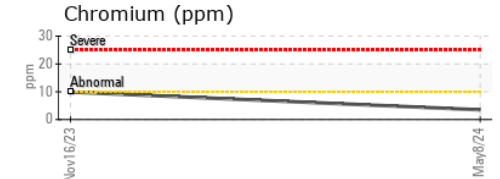
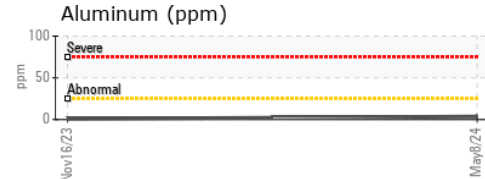
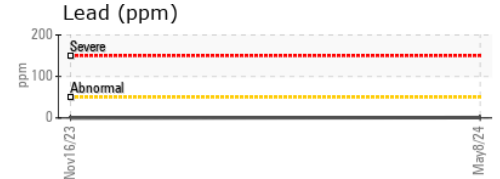
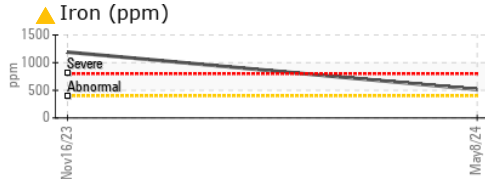
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	● 146	207	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color	<i>no image</i>	<i>no image</i>	<i>no image</i>
Bottom	<i>no image</i>	<i>no image</i>	<i>no image</i>

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0124482 **Received** : 21 May 2024
Lab Number : 06186355 **Tested** : 22 May 2024
Unique Number : 11043107 **Diagnosed** : 23 May 2024 - Don Baldrige
Test Package : MOB 2

SCRAP METAL SERVICES (SMS Mill Services LLC)
 250 WEST U.S. HWY 12
 CHESTERTON, IN US 46304
 Contact: DOMINIC WHITE
 dwhite@scrapmetalservices.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)