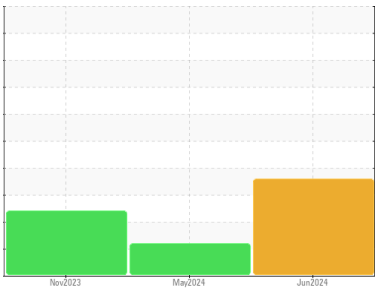
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

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

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

Wear
Gear wear is indicated.

Contamination
There is a high concentration of water present 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		**PCA0113903**	PCA0124482	PCA0112788
Sample Date		Client Info		**10 Jun 2024**	08 May 2024	16 Nov 2023
Machine Age	hrs	Client Info		**3318**	2811	230
Oil Age	hrs	Client Info		**500**	1000	0
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>400	▲ **635**	▲ 515	▲ 1190
Chromium	ppm	ASTM D5185m	>10	**5**	4	10
Nickel	ppm	ASTM D5185m	>10	**<1**	2	2
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	4	<1
Lead	ppm	ASTM D5185m	>50	**0**	<1	0
Copper	ppm	ASTM D5185m	>200	**174**	181	▲ 228
Tin	ppm	ASTM D5185m	>10	▲ **18**	10	▲ 34
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**154**	74	14
Barium	ppm	ASTM D5185m	5	**0**	0	0
Molybdenum	ppm	ASTM D5185m	5	**<1**	2	0
Manganese	ppm	ASTM D5185m		**7**	4	9
Magnesium	ppm	ASTM D5185m	25	**5**	7	2
Calcium	ppm	ASTM D5185m	200	**51**	58	4
Phosphorus	ppm	ASTM D5185m	300	**1013**	463	353
Zinc	ppm	ASTM D5185m	370	**70**	107	101
Sulfur	ppm	ASTM D5185m	2500	**21402**	9940	5046

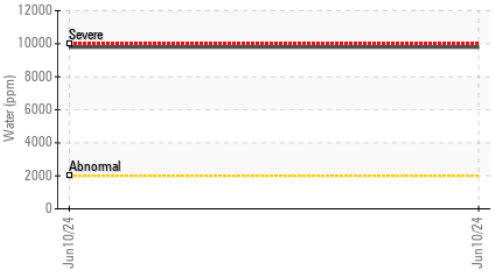
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**11**	4	6
Sodium	ppm	ASTM D5185m		**2**	5	3
Potassium	ppm	ASTM D5185m	>20	**3**	3	2
Water	%	ASTM D6304	>0.2	▲ **0.979**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **9790**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**1.74**	1.06	0.73

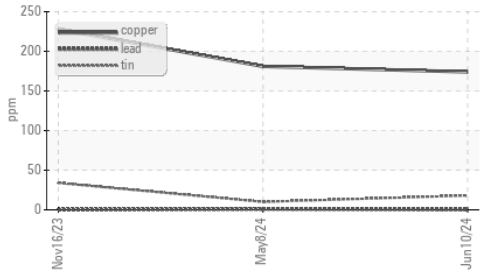
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

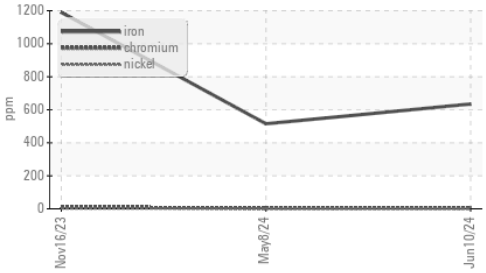
Water (KF)



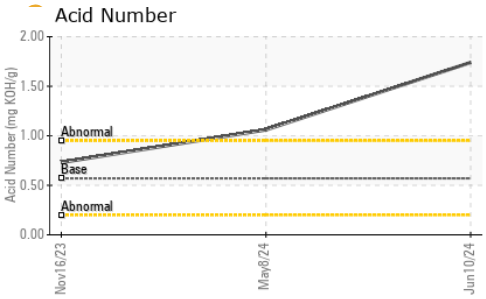
Non-ferrous Metals



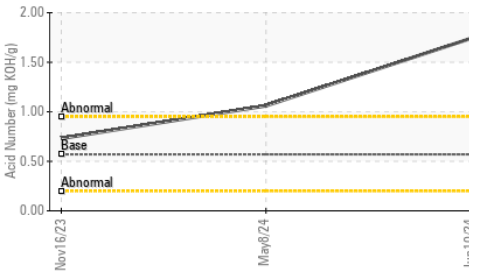
Ferrous Alloys



Acid Number



Acid Number



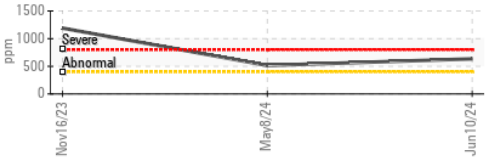
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	● **140**	● 146	207

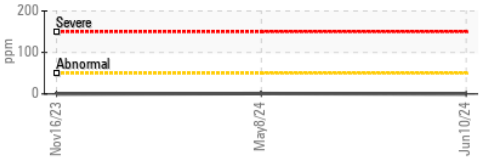
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

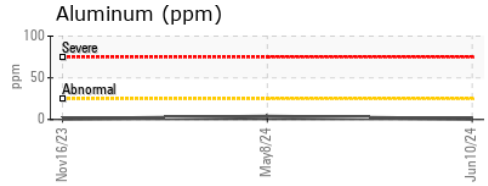
Iron (ppm)



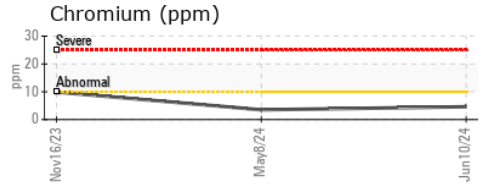
Lead (ppm)



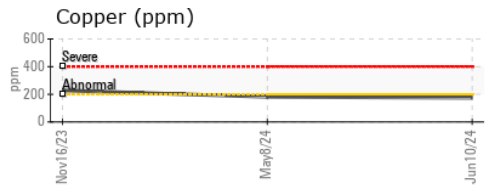
Aluminum (ppm)



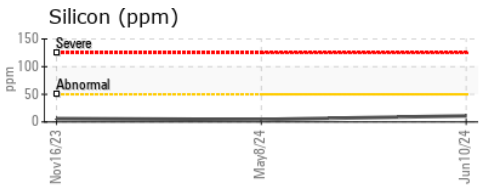
Chromium (ppm)



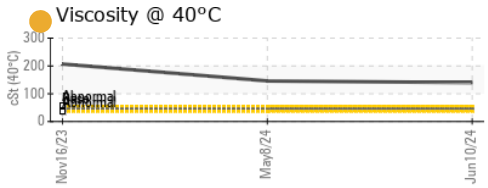
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Water

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113903
Lab Number : 06214905
Unique Number : 11087769
Test Package : MOB 2 (Additional Tests: KF)

Received : 19 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 21 Jun 2024 - Don Baldridge

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)

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

Report Id: SCRBURIN [WUSCAR] 06214905 (Generated: 06/23/2024 04:56:36) Rev: 1

Contact/Location: DOMINIC WHITE - SCRBURIN