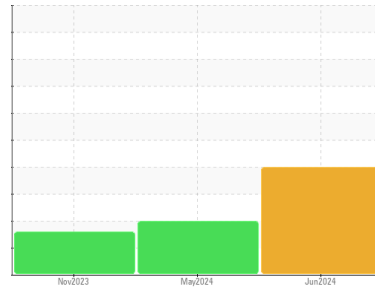


OIL ANALYSIS REPORT

Sample Rating Trend



WATER



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

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

Bearing and/or bushing wear is indicated.

▲ Contamination

There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris 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		PCA0113902	PCA0124483	PCA0112787
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 Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >400	289	▲ 619	▲ 1011
Chromium	ppm	ASTM D5185m >10	1	4	6
Nickel	ppm	ASTM D5185m >10	<1	1	1
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	▲ 257	188	194
Tin	ppm	ASTM D5185m >10	▲ 12	▲ 15	▲ 36
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	213	80	19
Barium	ppm	ASTM D5185m 5	0	0	0
Molybdenum	ppm	ASTM D5185m 5	<1	2	0
Manganese	ppm	ASTM D5185m	3	5	9
Magnesium	ppm	ASTM D5185m 25	7	6	3
Calcium	ppm	ASTM D5185m 200	65	61	7
Phosphorus	ppm	ASTM D5185m 300	1018	438	384
Zinc	ppm	ASTM D5185m 370	36	84	103
Sulfur	ppm	ASTM D5185m 2500	20946	9937	5561

CONTAMINANTS

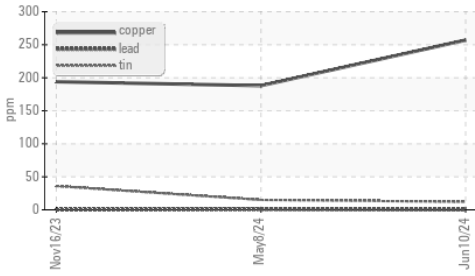
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	10	6	6
Sodium	ppm	ASTM D5185m	2	2	2
Potassium	ppm	ASTM D5185m >20	2	3	2
Water	%	ASTM D6304 >0.2	▲ 0.266	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 2660	---	---

FLUID DEGRADATION

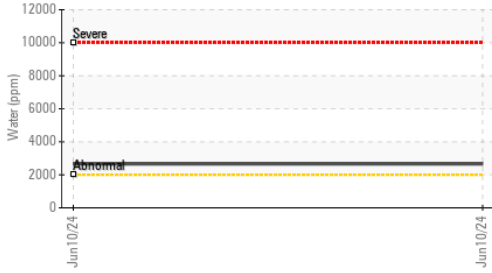
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	1.55	0.86	0.64

OIL ANALYSIS REPORT

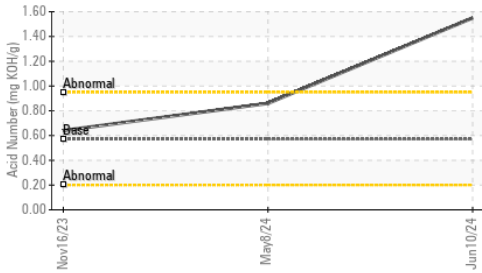
▲ Non-ferrous Metals



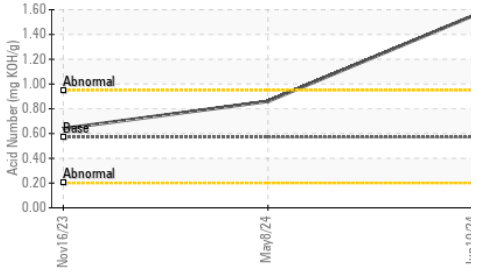
▲ Water (KF)



▲ Acid Number



▲ Acid Number



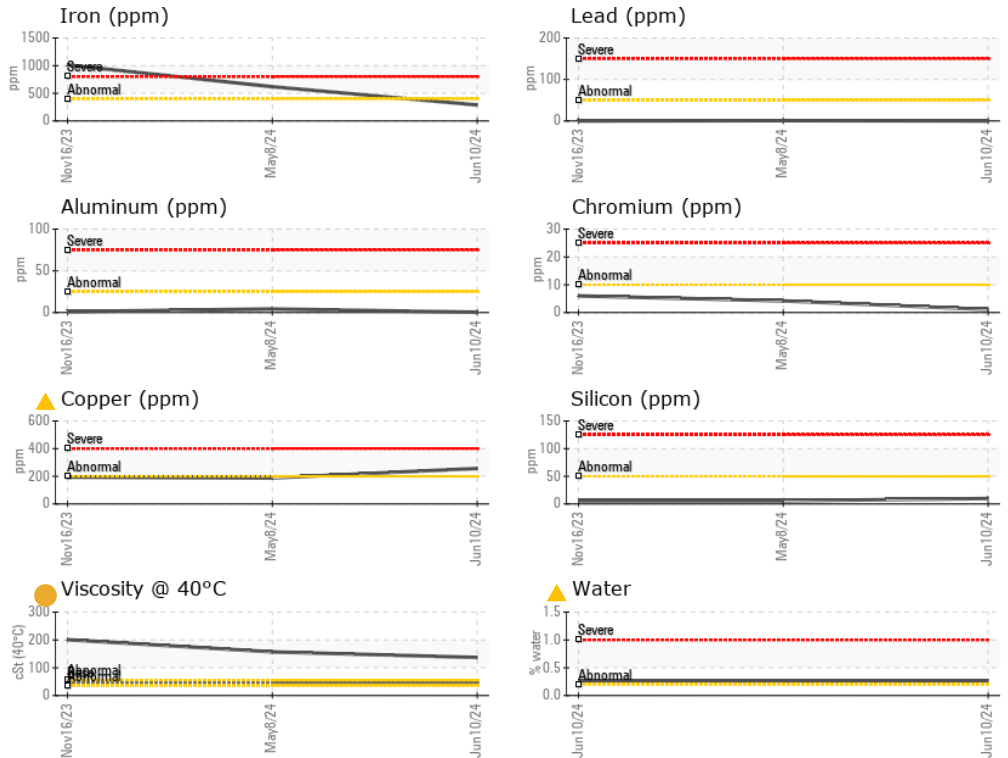
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	● 137	● 157	201

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0113902

Lab Number : 06214906

Unique Number : 11087770

Test Package : MOB 2 (Additional Tests: KF)

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)

Received : 19 Jun 2024

Tested : 20 Jun 2024

Diagnosed : 21 Jun 2024 - Don Baldrige

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: