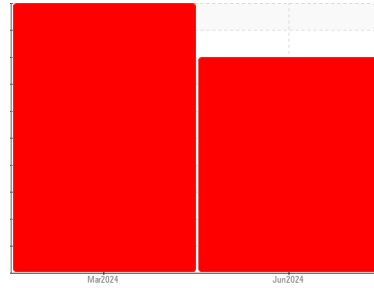


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
SENNEBOGEN 835 MH-76
 Component
Right Swing Drive
 Fluid
AW HYDRAULIC OIL ISO 46 (--- LTR)

DIAGNOSIS

▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

● Fluid Condition

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0113907	PCA0113895	---
Sample Date	Client Info		11 Jun 2024	14 Mar 2024	---
Machine Age	hrs	Client Info	22308	21270	---
Oil Age	hrs	Client Info	500	250	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			SEVERE	SEVERE	---

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	323	391	---
Chromium	ppm	ASTM D5185m >10	3	3	---
Nickel	ppm	ASTM D5185m >10	<1	1	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	<1	1	---
Lead	ppm	ASTM D5185m >50	7	20	---
Copper	ppm	ASTM D5185m >200	▲ 606	▲ 608	---
Tin	ppm	ASTM D5185m >10	▲ 15	▲ 25	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	187	40	---
Barium	ppm	ASTM D5185m 5	0	<1	---
Molybdenum	ppm	ASTM D5185m 5	3	4	---
Manganese	ppm	ASTM D5185m	3	4	---
Magnesium	ppm	ASTM D5185m 25	10	7	---
Calcium	ppm	ASTM D5185m 200	250	207	---
Phosphorus	ppm	ASTM D5185m 300	● 946	● 468	---
Zinc	ppm	ASTM D5185m 370	106	259	---
Sulfur	ppm	ASTM D5185m 2500	● 19272	● 6487	---

CONTAMINANTS

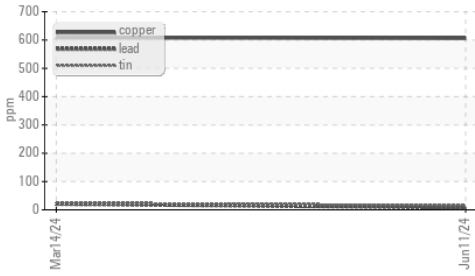
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	10	6	---
Sodium	ppm	ASTM D5185m	2	3	---
Potassium	ppm	ASTM D5185m >20	3	5	---

FLUID DEGRADATION

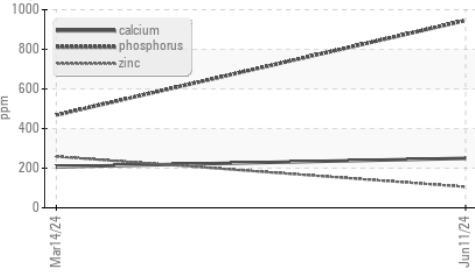
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	1.07	0.49	---

OIL ANALYSIS REPORT

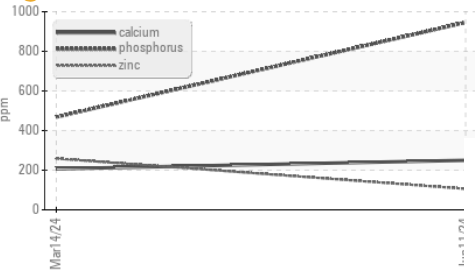
▲ Non-ferrous Metals



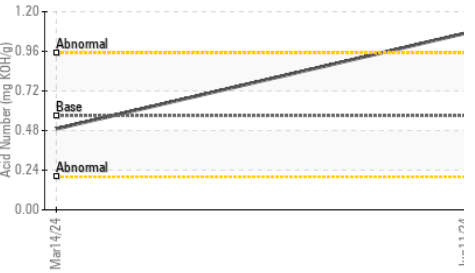
● Additives



● Additives



Acid Number



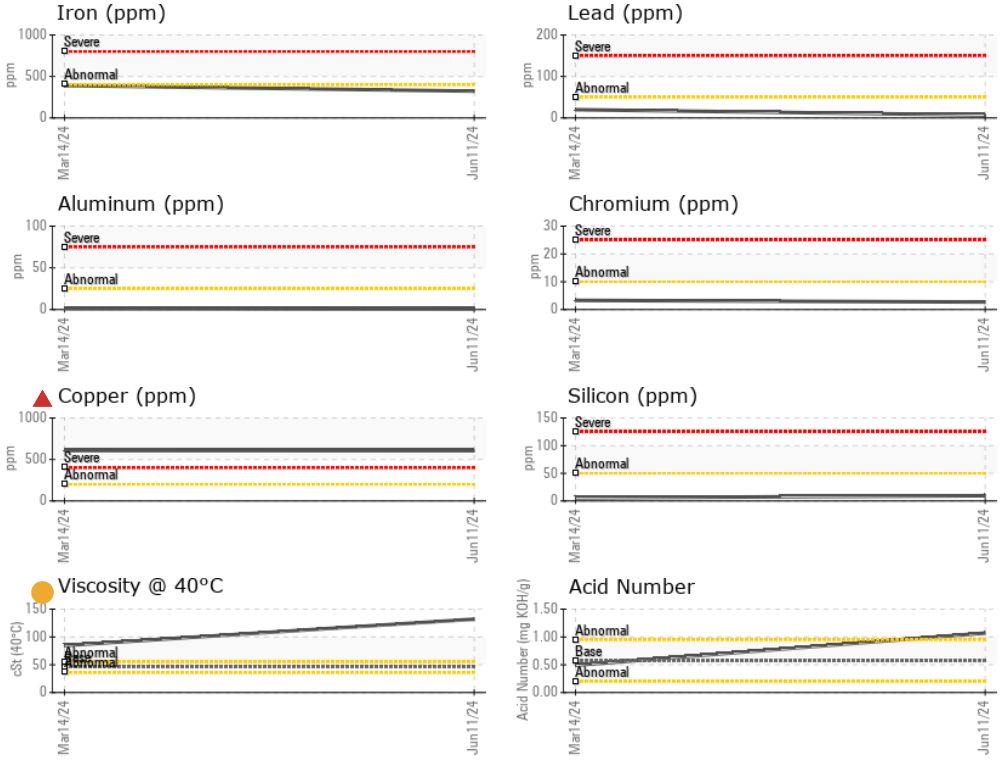
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	● 132	● 84.6

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. : PCA0113907
Lab Number : 06214904
Unique Number : 11087768
Test Package : MOB 2

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

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)

T:
F: