



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
SENNEBOGEN 840E MH-82

Component
Front Differential

Fluid
GEAR OIL SAE 80W90 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal for time on oil.

Contamination

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	PCA0112784	---	---
Sample Date	Client Info	16 Nov 2023	---	---
Machine Age	hrs	Client Info	230	---
Oil Age	hrs	Client Info	230	---
Oil Changed	Client Info	Changed	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>.2	NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	75	---
Chromium	ppm	ASTM D5185m	>10	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	---
Titanium	ppm	ASTM D5185m		0	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	<1	---
Lead	ppm	ASTM D5185m	>25	0	---
Copper	ppm	ASTM D5185m	>100	13	---
Tin	ppm	ASTM D5185m	>10	0	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	400	0	---
Barium	ppm	ASTM D5185m	200	363	---
Molybdenum	ppm	ASTM D5185m	12	0	---
Manganese	ppm	ASTM D5185m		2	---
Magnesium	ppm	ASTM D5185m	12	0	---
Calcium	ppm	ASTM D5185m	150	3	---
Phosphorus	ppm	ASTM D5185m	1650	1135	---
Zinc	ppm	ASTM D5185m	125	9	---
Sulfur	ppm	ASTM D5185m	22500	28849	---

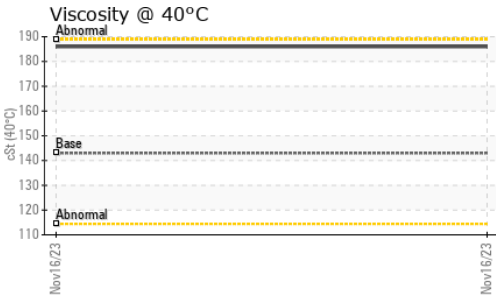
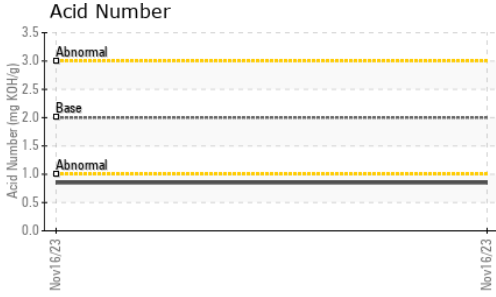
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	6	---
Sodium	ppm	ASTM D5185m	>170	5	---
Potassium	ppm	ASTM D5185m	>20	0	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	0.85	---

OIL ANALYSIS REPORT



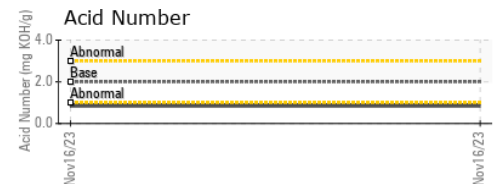
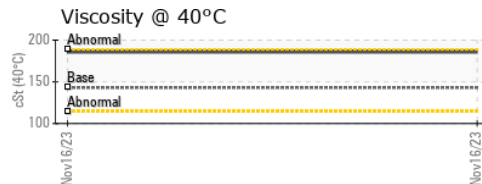
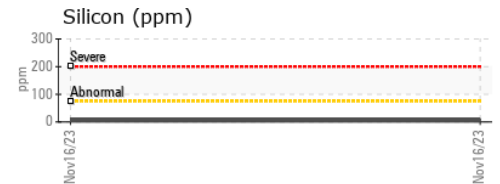
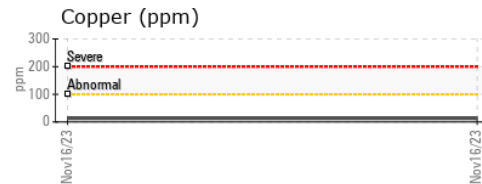
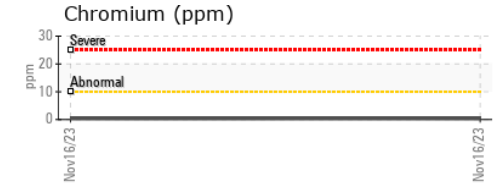
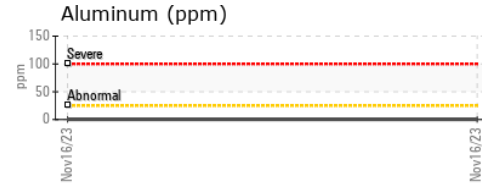
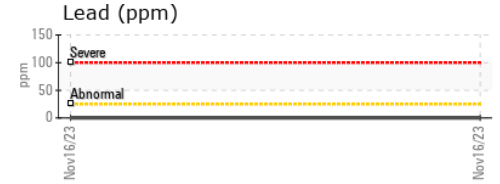
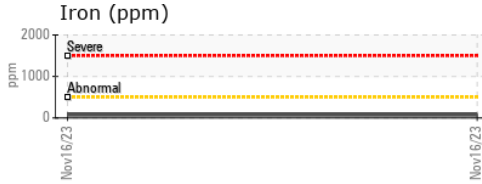
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 143	186	---	---

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. : PCA0112784 **Received** : 07 Dec 2023
Lab Number : 06027929 **Diagnosed** : 09 Dec 2023
Unique Number : 10777720 **Diagnostician** : 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)

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F: