



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[CMC]
 Machine Id
SENNEBOGEN 850 850.0.3186
 Component
Hydraulic System
 Fluid
SENNEBOGEN HO46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP438681	VCP407674	---
Sample Date		Client Info		02 Jan 2024	11 Sep 2023	---
Machine Age	hrs	Client Info		1899	446	---
Oil Age	hrs	Client Info		1899	446	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	8	5	---
Chromium	ppm	ASTM D5185m	>10	1	1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	<1	4	---
Lead	ppm	ASTM D5185m	>10	<1	<1	---
Copper	ppm	ASTM D5185m	>75	2	2	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

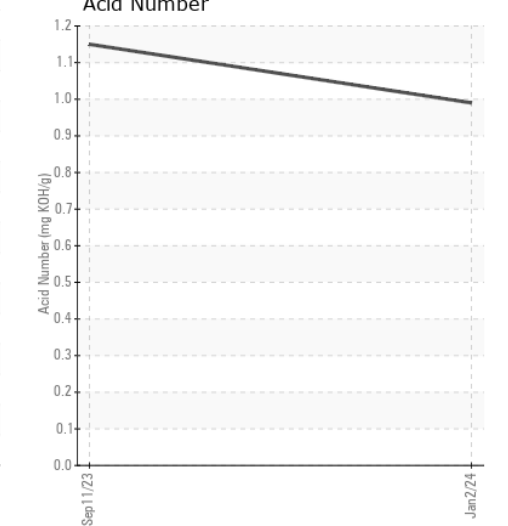
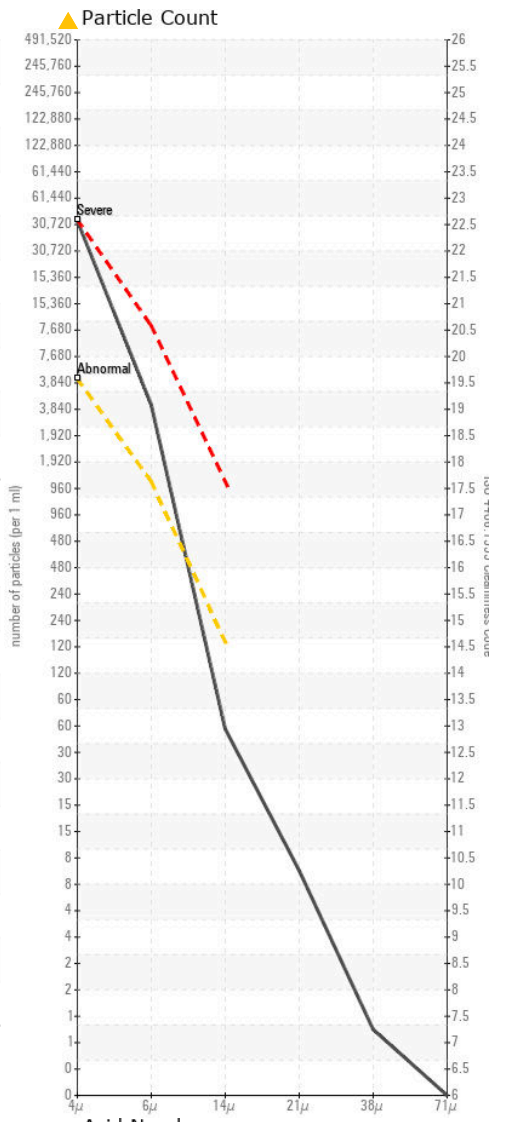
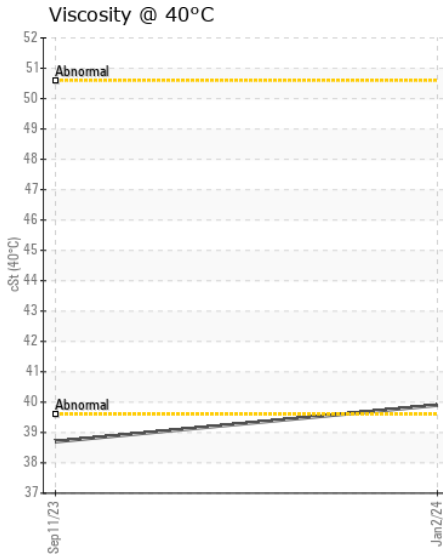
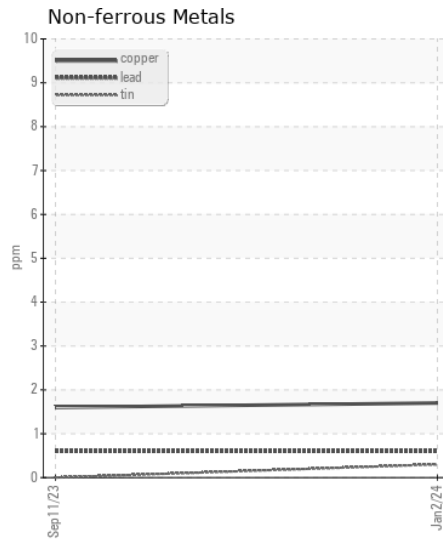
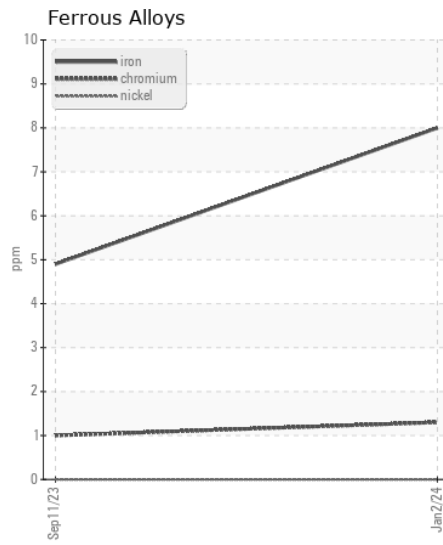
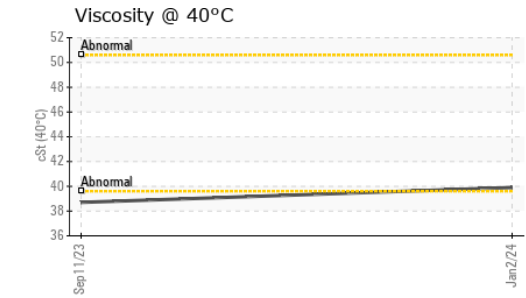
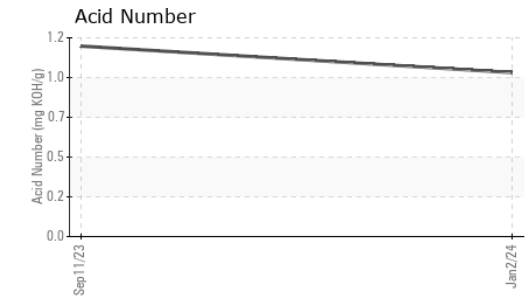
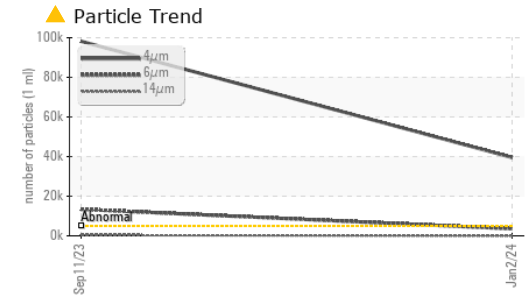
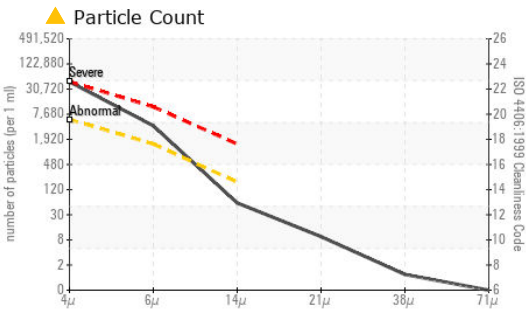
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	2	3	---
Potassium	ppm	ASTM D5185m	>20	0	1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 39540	▲ 98195	---
Particles >6µm		ASTM D7647	>1300	▲ 3544	▲ 13390	---
Particles >14µm		ASTM D7647	>160	51	▲ 334	---
Particles >21µm		ASTM D7647	>40	8	▲ 80	---
Particles >38µm		ASTM D7647	>10	1	2	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/19/13	▲ 24/21/16	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	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	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		2	2	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		12	10	---
Calcium	ppm	ASTM D5185m		1222	1314	---
Phosphorus	ppm	ASTM D5185m		637	619	---
Zinc	ppm	ASTM D5185m		709	748	---
Sulfur	ppm	ASTM D5185m		4201	4357	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.99	1.15	---
Visc @ 40°C	cSt	ASTM D445		39.9	▲ 38.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : VCP438681 Recieved : 18 Jan 2024
 Lab Number : 06064232 Diagnosed : 19 Jan 2024
 Unique Number : 10835614 Diagnostician : Wes Davis
 Test Package : MOB 2

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F:

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)