



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[SPM715231]

Machine Id

SENNEBOGEN 835 835.0.3282

Component

Front Left Final Drive

Fluid

GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP446418	VCP436983	VCP393792
Sample Date		Client Info		25 Jun 2024	08 Dec 2023	08 Dec 2023
Machine Age	hrs	Client Info		1200	223	223
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The copper level is abnormal. High concentration of visible yellow metal present.

Iron	ppm	ASTM D5185m	>500	73	253	135
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	4	<1	0
Lead	ppm	ASTM D5185m	>25	9	1	14
Copper	ppm	ASTM D5185m	>50	▲ 135	▲ 50	▲ 150
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	▲ HEAVY	▲ MODER	▲ MODER

CONTAMINATION

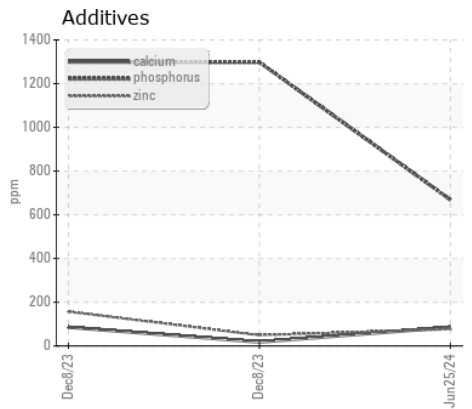
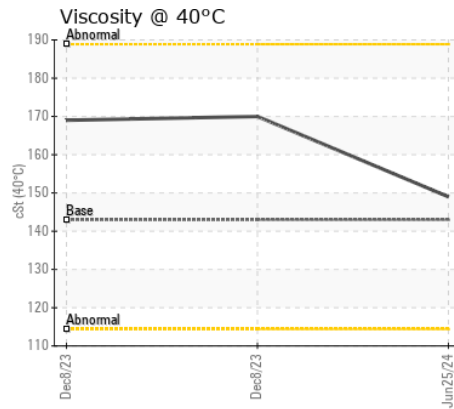
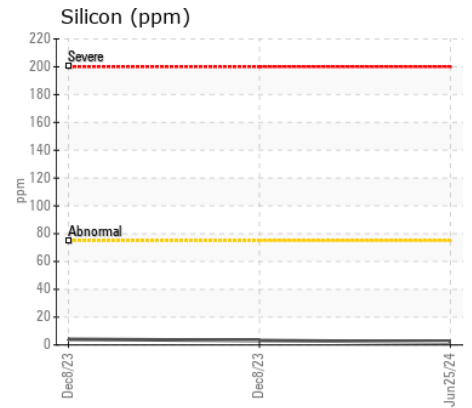
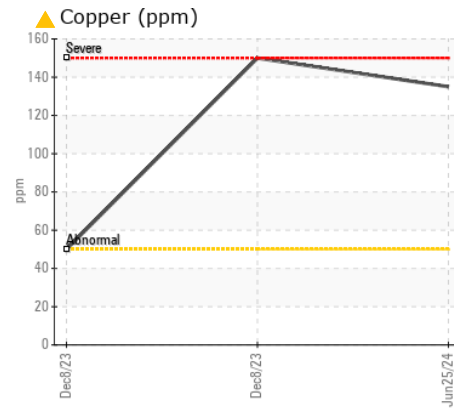
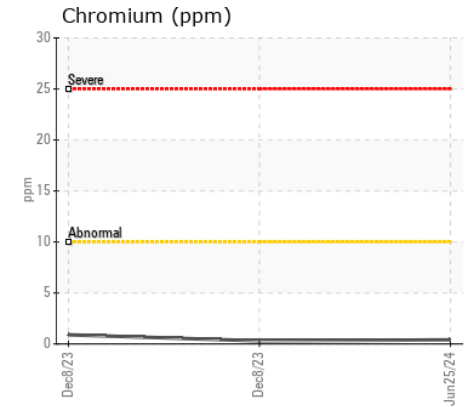
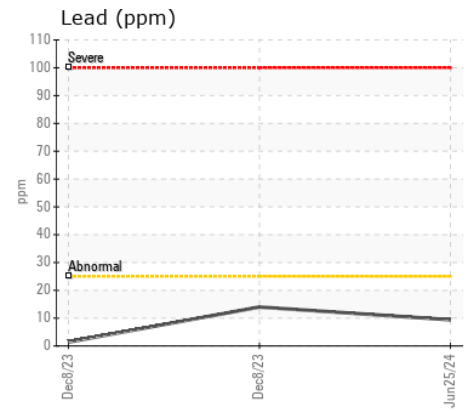
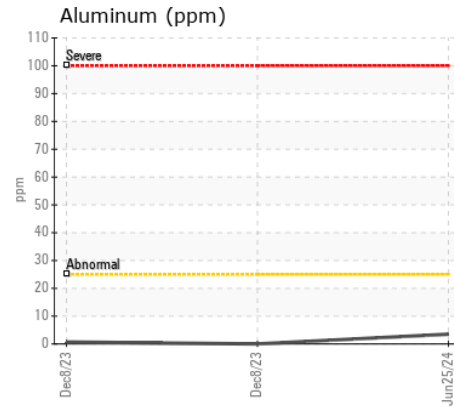
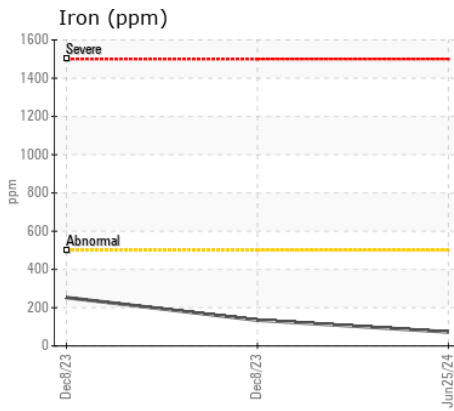
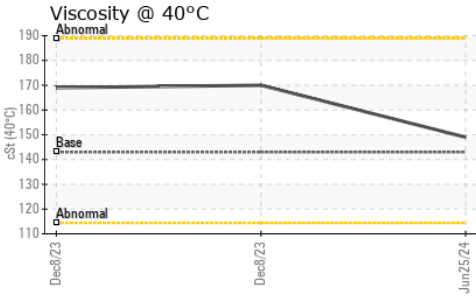
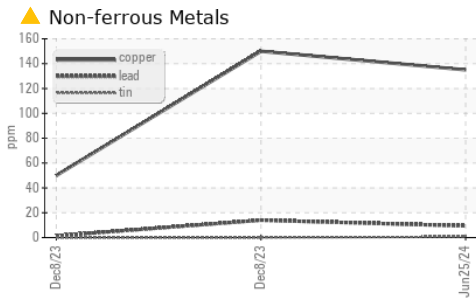
There is a moderate amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>75	2	4	3
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	▲ HEAVY	NONE	LIGHT
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	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	2	12	11
Boron	ppm	ASTM D5185m	400	7	43	28
Barium	ppm	ASTM D5185m	200	54	255	218
Molybdenum	ppm	ASTM D5185m	12	<1	<1	0
Manganese	ppm	ASTM D5185m		2	5	4
Magnesium	ppm	ASTM D5185m	12	2	<1	<1
Calcium	ppm	ASTM D5185m	150	86	18	86
Phosphorus	ppm	ASTM D5185m	1650	669	1298	1299
Zinc	ppm	ASTM D5185m	125	77	49	157
Sulfur	ppm	ASTM D5185m	22500	20929	28545	28511
Visc @ 40°C	cSt	ASTM D445	143	149	170	169



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP446418 **Received** : 18 Jul 2024
Lab Number : 06240660 **Tested** : 19 Jul 2024
Unique Number : 11129494 **Diagnosed** : 20 Jul 2024 - Don Baldrige
Test Package : MOB 1

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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