



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

[473401]

Machine Id

SENNEBOGEN 830 830.0.3516

Component

Front Right Final Drive

Fluid

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- 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		VCP434958	---	---
Sample Date		Client Info		12 Apr 2024	---	---
Machine Age	hrs	Client Info		2053	---	---
Oil Age	hrs	Client Info		1000	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Not Changed	---	---
Sample Status				SEVERE	---	---

### WEAR

The copper level is severe.

Iron	ppm	ASTM D5185m	>500	178	---	---
Chromium	ppm	ASTM D5185m	>10	1	---	---
Nickel	ppm	ASTM D5185m	>10	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	9	---	---
Lead	ppm	ASTM D5185m	>25	2	---	---
Copper	ppm	ASTM D5185m	>50	▲ 293	---	---
Tin	ppm	ASTM D5185m	>10	1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

### CONTAMINATION

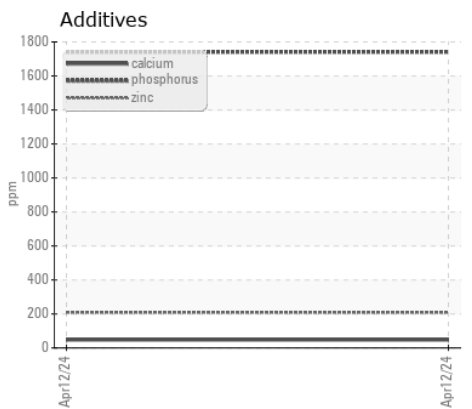
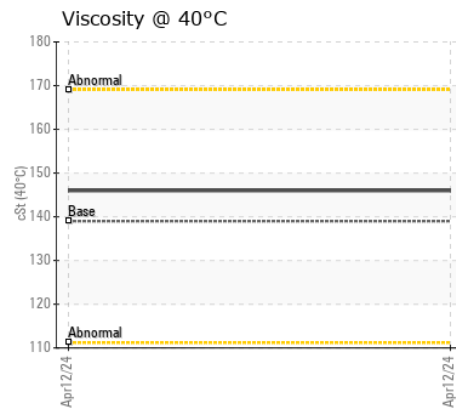
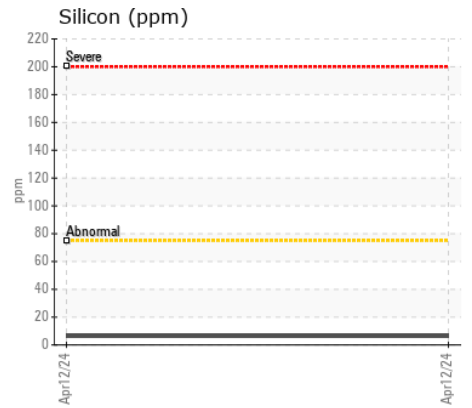
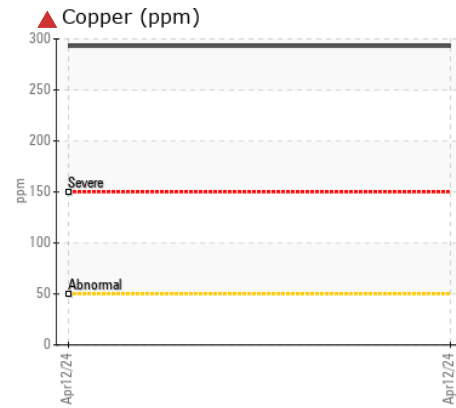
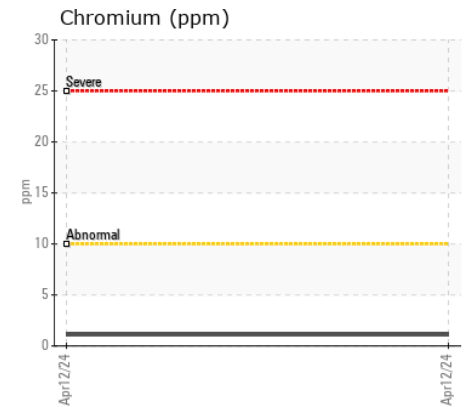
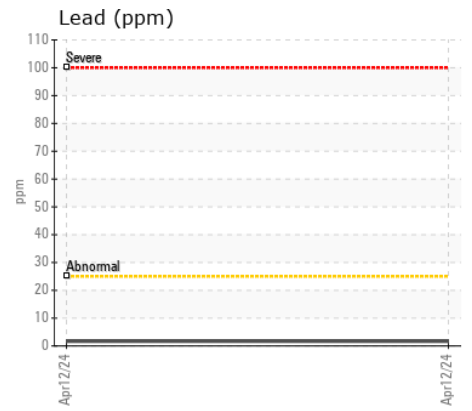
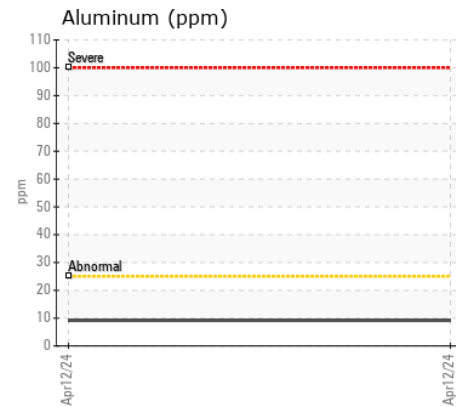
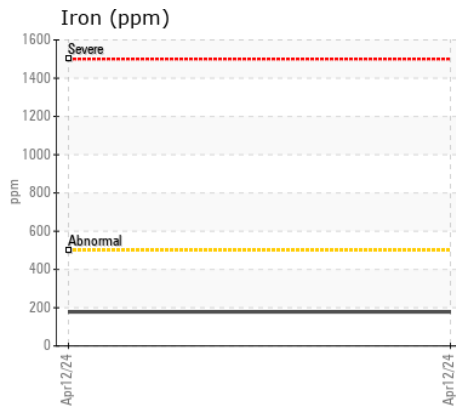
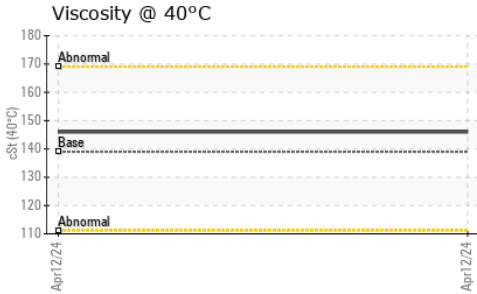
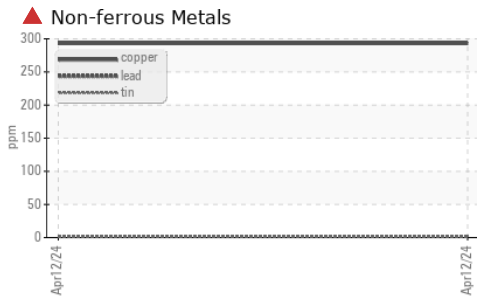
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	6	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.2	NEG	---	---
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	---	---

### FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		4	---	---
Boron	ppm	ASTM D5185m	379	128	---	---
Barium	ppm	ASTM D5185m	0.0	4	---	---
Molybdenum	ppm	ASTM D5185m	0.8	2	---	---
Manganese	ppm	ASTM D5185m	0.0	18	---	---
Magnesium	ppm	ASTM D5185m	31	13	---	---
Calcium	ppm	ASTM D5185m	38	48	---	---
Phosphorus	ppm	ASTM D5185m	1077	1741	---	---
Zinc	ppm	ASTM D5185m	46	209	---	---
Sulfur	ppm	ASTM D5185m	23526	20971	---	---
Visc @ 40°C	cSt	ASTM D445	139	146	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP434958  
**Lab Number** : 06153510  
**Unique Number** : 10983588  
**Test Package** : MOB 1

**Received** : 18 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Sean Felton

**ALTA EQUIPMENT COMPANY**  
 1035 WYLIE DRIVE  
 BLOOMINGTON, IL  
 US 61705  
 Contact: MIKE MARTIN  
 mike.martin@altaequipment.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: