



# OIL ANALYSIS REPORT

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

Area

[728849 NORTH STAR]

Machine Id

SENNEBOGEN 850 3139

Component

Front Right Final Drive

Fluid

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP454902	VCP445856	VCP416284
Sample Date		Client Info		13 Jun 2024	13 Feb 2024	26 Jul 2023
Machine Age	hrs	Client Info		4105	3118	1921
Oil Age	hrs	Client Info		1000	1118	1921
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				NORMAL	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	203	111	77
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	10	6	10
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

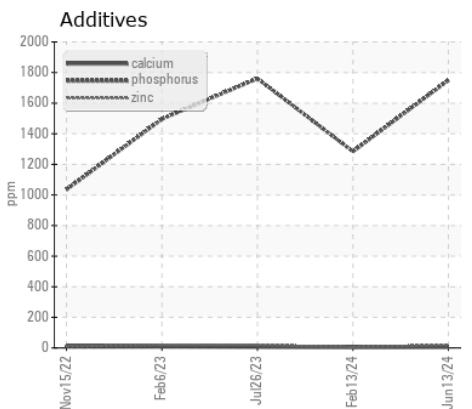
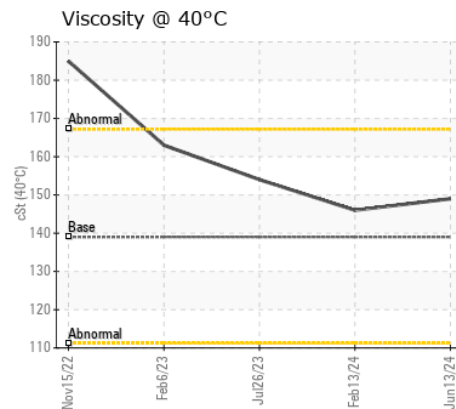
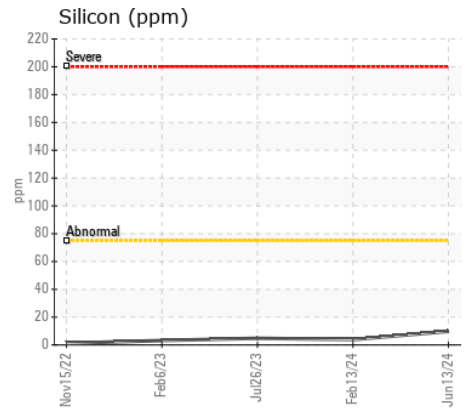
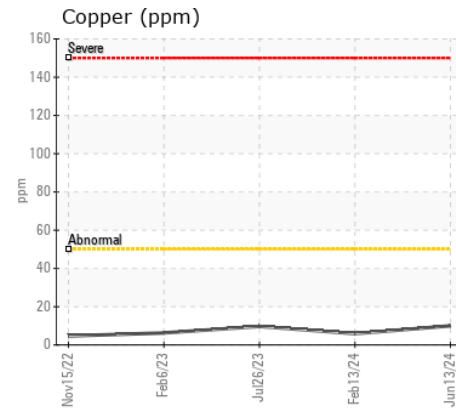
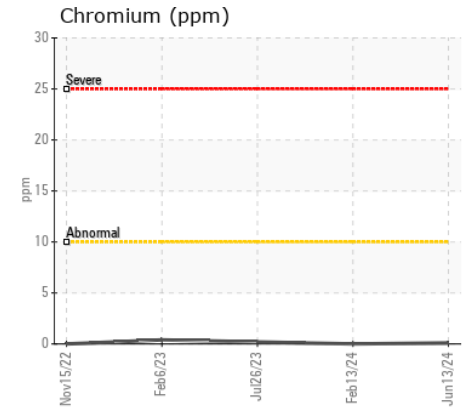
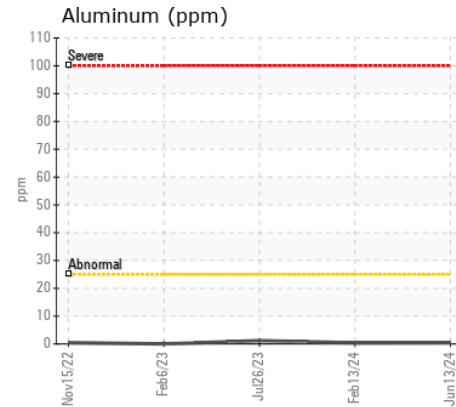
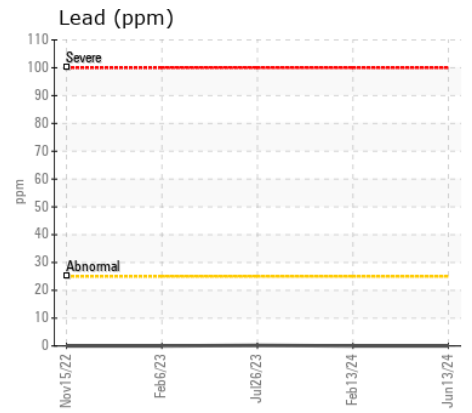
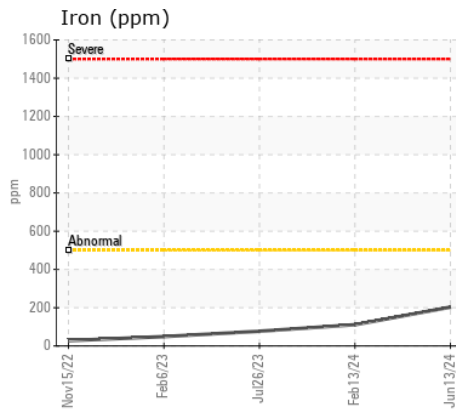
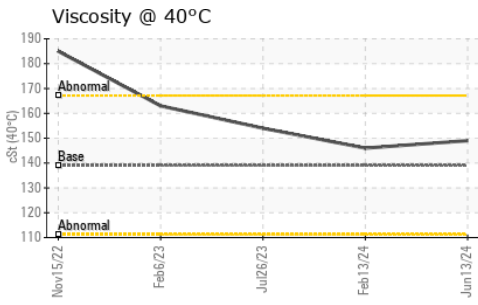
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	10	4	5
Potassium	ppm	ASTM D5185m	>20	<1	0	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
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		<1	2	0
Boron	ppm	ASTM D5185m	379	138	86	118
Barium	ppm	ASTM D5185m	0.0	8	14	54
Molybdenum	ppm	ASTM D5185m	0.8	0	0	0
Manganese	ppm	ASTM D5185m	0.0	1	1	2
Magnesium	ppm	ASTM D5185m	31	<1	0	0
Calcium	ppm	ASTM D5185m	38	6	4	7
Phosphorus	ppm	ASTM D5185m	1077	1750	1284	1761
Zinc	ppm	ASTM D5185m	46	20	4	20
Sulfur	ppm	ASTM D5185m	23526	24905	15943	21243
Visc @ 40°C	cSt	ASTM D445	139	149	146	154



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP454902  
**Lab Number** : 06216074  
**Unique Number** : 11088938  
**Test Package** : MOB 1

**Received** : 20 Jun 2024  
**Tested** : 22 Jun 2024  
**Diagnosed** : 23 Jun 2024 - Don Baldrige

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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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)