



# CONSTRUCTION EQUIPMENT

660752 NORTHSTAR BLU SENNEBOGEN 850 3139 - FRONT RIGHT FINAL DRIVE



**Sample No:** VCP445856  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 660752 NORTHSTAR BLU



## SAMPLE INFORMATION

Sample Number	<b>VCP445856</b>	VCP416284	VCP382918	VCP396146
Sample Date	<b>13 Feb 2024</b>	26 Jul 2023	06 Feb 2023	15 Nov 2022
Machine Hours	<b>3118</b>	1921	952	509
Oil Hours	<b>1118</b>	1921	500	509
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>146</b>	154	163	185
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>4</b>	5	3	1
Sodium	ppm	<b>2</b>	0	1	2
Potassium	ppm	<b>0</b>	1	1	0

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>111</b>	77	49	28
Copper	ppm	<b>6</b>	10	6	5
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	1	0	<1
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>1</b>	2	1	1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>4</b>	7	10	13
Magnesium	ppm	<b>0</b>	0	<1	<1
Zinc	ppm	<b>4</b>	20	20	9
Phosphorus	ppm	<b>1284</b>	1761	1496	1035
Barium	ppm	<b>14</b>	54	115	258
Boron	ppm	<b>86</b>	118	77	2

**Depot:** VOLVO2990  
**Unique No:** 10896937  
**Signed:** Sean Felton  
**Report Date:** 26 Feb 2024



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## GRAPHS

