



# CONSTRUCTION EQUIPMENT

728849 NORTH STAR SENNEBOGEN 850 3139 - REAR LEFT FINAL DRIVE



**Sample No:** VCP454903  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 728849 NORTH STAR



## SAMPLE INFORMATION

Sample Number	<b>VCP454903</b>	VCP445857	VCP416285	VCP382919
Sample Date	<b>13 Jun 2024</b>	13 Feb 2024	26 Jul 2023	06 Feb 2023
Machine Hours	<b>4105</b>	3118	1921	952
Oil Hours	<b>1000</b>	1118	1000	500
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>147</b>	132	152	152
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>6</b>	2	4	3
Sodium	ppm	<b>1</b>	2	0	<1
Potassium	ppm	<b>&lt;1</b>	0	<1	<1

## 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>32</b>	46	29	16
Copper	ppm	<b>3</b>	2	5	2
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	0
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>8</b>	8	0	4
Magnesium	ppm	<b>&lt;1</b>	0	0	<1
Zinc	ppm	<b>13</b>	2	4	4
Phosphorus	ppm	<b>1656</b>	473	1809	1734
Barium	ppm	<b>&lt;1</b>	1	6	46
Boron	ppm	<b>171</b>	10	59	135

**Depot:** VOLVO2990  
**Unique No:** 11088934  
**Signed:** Don Baldrige  
**Report Date:** 23 Jun 2024



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## GRAPHS

