



CONSTRUCTION EQUIPMENT

728849 NORTH STAR SENNEBOGEN 850 3139 - REAR AXLE



Sample No: VCP454900
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 728849 NORTH STAR



SAMPLE INFORMATION

Sample Number	VCP454900	VCP445854	VCP412071	VCP382916
Sample Date	13 Jun 2024	13 Feb 2024	26 Jul 2023	06 Feb 2023
Machine Hours	4105	3118	1921	952
Oil Hours	1000	1118	1000	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	146	132	151	152
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	2	3	3
Sodium	ppm	1	2	0	<1
Potassium	ppm	0	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	30	31	23	13
Copper	ppm	3	2	6	2
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	0	0	<1	0
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	4	8	16	24
Magnesium	ppm	0	0	0	<1
Zinc	ppm	9	2	11	18
Phosphorus	ppm	1681	482	1776	1774
Barium	ppm	0	1	6	46
Boron	ppm	175	10	79	137

Depot: VOLVO2990
Unique No: 11088940
Signed: Don Baldrige
Report Date: 23 Jun 2024



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GRAPHS

