



CONSTRUCTION EQUIPMENT

728849 NORTH STAR SENNEBOGEN 850 3139 - FRONT AXLE



Sample No: VCP454899
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 728849 NORTH STAR



SAMPLE INFORMATION

Sample Number	VCP454899	VCP445853	VCP416282	VCP382915
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	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	151	130	146	147
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	2	6	3
Sodium	ppm	<1	2	0	<1
Potassium	ppm	<1	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	8	3	5	3
Copper	ppm	2	1	4	3
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	0	0	<1	0
Chromium	ppm	0	0	0	0
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	2	2	0	5
Magnesium	ppm	0	0	0	<1
Zinc	ppm	13	2	4	6
Phosphorus	ppm	1646	410	1906	1953
Barium	ppm	0	0	0	4
Boron	ppm	161	3	127	172

Depot: VOLVO2990
Unique No: 11088939
Signed: Don Baldrige
Report Date: 23 Jun 2024



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GRAPHS

