



CONSTRUCTION EQUIPMENT

701295 PRIMORIS VOLVO A40G 352509 - REAR AXLE



Sample No: VCP451153
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 701295 PRIMORIS



SAMPLE INFORMATION

Sample Number	VCP451153	VCP433434	VCP393804	VCP365211
Sample Date	12 Apr 2024	16 Nov 2023	25 Apr 2023	16 Aug 2022
Machine Hours	6123	5500	4282	3145
Oil Hours	2000	1500	3282	500
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	250	251	51.5	51.9
		■	■	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 3	■ 2	■ 6	■ 4
Sodium	ppm	■ 1	■ 0	■ 0	■ <1
Potassium	ppm	■ <1	■ 1	■ 3	■ 4

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	■ 72	■ 69	■ 577	■ 443
Copper	ppm	■ <1	■ <1	■ 5	■ 3
Lead	ppm	■ <1	■ 0	■ <1	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ <1	■ 2	■ 0	■ <1
Chromium	ppm	■ <1	■ <1	■ 7	■ 6
Molybdenum	ppm	■ 12	■ 11	■ 5	■ 5
Nickel	ppm	■ <1	■ 0	■ 2	■ <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 4	■ 3	■ 22	■ 13
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 131	■ 120	■ 20	■ 15
Magnesium	ppm	■ 47	■ 42	■ 2	■ <1
Zinc	ppm	■ 93	■ 63	■ 17	■ 10
Phosphorus	ppm	■ 1076	■ 1089	■ 2373	■ 2399
Barium	ppm	■ 0	■ 3	■ 0	■ 0
Boron	ppm	■ 192	■ 193	■ 116	■ 169

Depot: VOLVO0093
Unique No: 11047523
Signed: Wes Davis
Report Date: 28 May 2024



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GRAPHS

