



CONSTRUCTION EQUIPMENT

W14719 VOLVO A40G 352936 - BOGIE/CENTER AXLE



Sample No: VCP433548
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: W14719



SAMPLE INFORMATION

Sample Number	VCP433548	VCP382349	VCP384169	---
Sample Date	21 Sep 2023	29 Dec 2022	31 Oct 2022	---
Machine Hours	1954	963	745	---
Oil Hours	1000	1000	500	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	ATTENTION	ATTENTION	ATTENTION	---

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OIL CONDITION

Visc @ 40°C	cSt	▲ 48.7	▲ 49.4	▲ 49.8	---
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CONTAMINATION

Silicon	ppm	■ 3	■ 2	■ 4	---
Sodium	ppm	■ 1	■ 2	■ 2	---
Potassium	ppm	■ 5	■ 4	■ 3	---



WEAR METALS

Iron	ppm	■ 191	■ 124	■ 235	---
Copper	ppm	■ 2	■ 1	■ 1	---
Lead	ppm	■ 0	■ 0	■ 0	---
Tin	ppm	■ 0	■ 0	■ <1	---
Aluminum	ppm	■ 0	■ <1	■ <1	---
Chromium	ppm	■ 3	■ 2	■ 4	---
Molybdenum	ppm	■ 4	■ 6	■ 8	---
Nickel	ppm	■ <1	■ <1	■ 0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	■ 8	■ 7	■ 13	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	▲ 18	■ 15	■ 17	---
Magnesium	ppm	■ 1	■ 2	■ <1	---
Zinc	ppm	▲ 11	■ 13	■ 7	---
Phosphorus	ppm	▲ 2341	2299	2476	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	▲ 291	■ 289	■ 290	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO0080
Unique No: 10662652
Signed: Sean Felton
Report Date: 27 Sep 2023



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GRAPHS

