



CONSTRUCTION EQUIPMENT

633079 VOLVO A40G 341352 - DROP BOX



Sample No: VCP385134
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 633079



SAMPLE INFORMATION

Sample Number	VCP385134	VCP406403	VCP310795	VCP293104
Sample Date	08 Nov 2023	01 Feb 2023	29 Apr 2021	07 Oct 2020
Machine Hours	8415	7996	5966	5154
Oil Hours	4000	0	800	0
Oil Changed	Changed	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 65.7	▲ 65.8	■ 224	■ 55.1
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 16	■ 33	■ 1	■ 20
Sodium	ppm	■ 2	■ <1	■ <1	■ 4
Potassium	ppm	■ 0	■ 0	■ <1	■ 0

Diagnosis

The oil 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. Confirm oil type.



WEAR METALS

Iron	ppm	■ 81	■ 149	■ 18	■ 86
Copper	ppm	■ 1	■ <1	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ 2	■ 5	■ <1	■ 5
Chromium	ppm	■ 2	■ 3	■ <1	■ 1
Molybdenum	ppm	■ 4	■ 6	■ 4	■ 2
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 1	■ 2	■ <1	■ 1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 164	■ 122	■ 124	■ 1771
Magnesium	ppm	■ 15	■ 19	■ 29	■ 34
Zinc	ppm	■ 76	■ 76	■ 69	■ 684
Phosphorus	ppm	■ 520	579	■ 949	■ 1048
Barium	ppm	■ <1	■ 0	■ 0	■ 0
Boron	ppm	■ 89	■ 110	■ 170	■ 157

Depot: VOLVO0093
Unique No: 10765271
Signed: Don Baldrige
Report Date: 03 Dec 2023



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GRAPHS

