



CONSTRUCTION EQUIPMENT

SPM594830 SEMINOLE C VOLVO EC350E 314333 - REAR RIGHT FINAL DRIVE



Sample No: VCP415617
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SPM594830 SEMINOLE C



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP415617	VCP369893	VCP363870	---
Sample Date	21 Aug 2023	13 Dec 2022	29 Aug 2022	---
Machine Hours	2047	1042	630	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Chngd	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	241	244	161	---
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CONTAMINATION

Silicon	ppm	▲ 80	21	19	---
Sodium	ppm	2	<1	<1	---
Potassium	ppm	0	0	2	---



WEAR METALS

Iron	ppm	415	87	180	---
Copper	ppm	<1	<1	<1	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	▲ 9	3	4	---
Chromium	ppm	▲ 24	7	8	---
Molybdenum	ppm	9	7	<1	---
Nickel	ppm	2	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	1	---
Manganese	ppm	4	1	3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	113	113	10	---
Magnesium	ppm	32	35	2	---
Zinc	ppm	77	76	6	---
Phosphorus	ppm	978	883	296	---
Barium	ppm	0	0	0	---
Boron	ppm	135	125	<1	---

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The chromium level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0093
Unique No: 10621723
Signed: Don Baldrige
Report Date: 29 Aug 2023



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GRAPHS

