



CONSTRUCTION EQUIPMENT

SPM581125 VOLVO EC380 312007 - REAR LEFT FINAL DRIVE



Sample No: VCP412933
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SPM581125



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SAMPLE INFORMATION

Sample Number	VCP412933	VCP337719	---	---
Sample Date	25 Jul 2023	03 Aug 2022	---	---
Machine Hours	2157	1106	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	SEVERE	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	305	299	---	---
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CONTAMINATION

Silicon	ppm	881	37	---	---
Sodium	ppm	3	0	---	---
Potassium	ppm	5	2	---	---



WEAR METALS

Iron	ppm	2224	286	---	---
Copper	ppm	4	<1	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	97	6	---	---
Chromium	ppm	38	5	---	---
Molybdenum	ppm	4	<1	---	---
Nickel	ppm	2	0	---	---
Titanium	ppm	9	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	20	3	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	22	4	---	---
Magnesium	ppm	6	1	---	---
Zinc	ppm	14	14	---	---
Phosphorus	ppm	864	870	---	---
Barium	ppm	0	2	---	---
Boron	ppm	78	113	---	---

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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0093
Unique No: 10579427
Signed: Sean Felton
Report Date: 02 Aug 2023



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GRAPHS

