



CONSTRUCTION EQUIPMENT

SPM580906 VOLVO EC380EL 311492 - LEFT FINAL DRIVE



Sample No: VCP414195
Oil Type: GEAR OIL SAE 80W90
Job No: SPM580906



SAMPLE INFORMATION

Sample Number	VCP414195	VCP403439	VCP312888	---
Sample Date	21 Jul 2023	28 Feb 2023	09 Mar 2022	---
Machine Hours	7780	6944	5012	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	SEVERE	---

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OIL CONDITION

Visc @ 40°C	cSt	149	164	88.0	---
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CONTAMINATION

Water	%	0.113	0.229	---	---
Silicon	ppm	109	210	112	---
Sodium	ppm	4	8	4	---
Potassium	ppm	6	10	7	---

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All 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.



WEAR METALS

Iron	ppm	400	1330	1614	---
Copper	ppm	2	6	7	---
Lead	ppm	3	5	5	---
Tin	ppm	<1	2	2	---
Aluminum	ppm	32	56	28	---
Chromium	ppm	6	23	20	---
Molybdenum	ppm	<1	4	2	---
Nickel	ppm	<1	1	<1	---
Titanium	ppm	3	6	2	---
Silver	ppm	0	<1	0	---
Manganese	ppm	14	32	19	---
Vanadium	ppm	<1	<1	<1	---



ADDITIVES

Calcium	ppm	377	2784	202	---
Magnesium	ppm	42	129	57	---
Zinc	ppm	147	885	15	---
Phosphorus	ppm	1371	799	508	---
Barium	ppm	0	3	0	---
Boron	ppm	69	7	6	---

Depot: BELBOU
Unique No: 10586804
Signed: Don Baldrige
Report Date: 04 Aug 2023



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GRAPHS

