



CONSTRUCTION EQUIPMENT

SW-27111-2 CASTLE VOLVO EC210BLC 16751 - SWING DRIVE



Sample No: VCP414471
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SW-27111-2 CASTLE



SAMPLE INFORMATION

Sample Number	VCP414471	VCP387748	VCP348861	---
Sample Date	29 Nov 2023	13 Oct 2022	08 Mar 2022	---
Machine Hours	2580	1348	827	---
Oil Hours	1100	0	1000	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	SEVERE	---

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OIL CONDITION

Visc @ 40°C	cSt	164	166	173	---
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CONTAMINATION

Water	%	0.173	0.792	2.06	---
Silicon	ppm	4	11	11	---
Sodium	ppm	3	2	2	---
Potassium	ppm	0	0	0	---

Diagnosis

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	49	81	101	---
Copper	ppm	3	10	13	---
Lead	ppm	0	6	6	---
Tin	ppm	0	1	1	---
Aluminum	ppm	<1	2	5	---
Chromium	ppm	<1	1	1	---
Molybdenum	ppm	53	2	2	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	<1	2	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	161	1180	1601	---
Magnesium	ppm	3	22	25	---
Zinc	ppm	102	490	602	---
Phosphorus	ppm	868	1149	1071	---
Barium	ppm	0	0	0	---
Boron	ppm	80	92	64	---

Depot: VOLVO8770
Unique No: 10776642
Signed: Jonathan Hester
Report Date: 12 Dec 2023



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GRAPHS

