



CONSTRUCTION EQUIPMENT

SW-23755-2 CASTLE VA VOLVO EC220EL 310178 - REAR LEFT FINAL DRIVE



Sample No: VCP414146
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SW-23755-2 CASTLE VA



SAMPLE INFORMATION

Sample Number	VCP414146	VCP299761	VCP277668	---
Sample Date	07 Sep 2023	23 Nov 2021	28 Aug 2020	---
Machine Hours	6228	3908	1965	---
Oil Hours	2000	2000	1965	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	136	135	135	---
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CONTAMINATION

Silicon	ppm	73	46	36	---
Sodium	ppm	<1	<1	2	---
Potassium	ppm	2	0	7	---

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	236	184	199	---
Copper	ppm	<1	3	<1	---
Lead	ppm	<1	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	10	11	9	---
Chromium	ppm	6	4	2	---
Molybdenum	ppm	<1	<1	0	---
Nickel	ppm	<1	0	2	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	<1	0	0	---
Manganese	ppm	2	1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	21	118	6	---
Magnesium	ppm	7	<1	3	---
Zinc	ppm	15	53	7	---
Phosphorus	ppm	960	965	906	---
Barium	ppm	0	0	<1	---
Boron	ppm	195	152	131	---

Depot: VOLVO8770
Unique No: 10649000
Signed: Wes Davis
Report Date: 18 Sep 2023



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GRAPHS

