



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 31011 - FRONT LEFT FINAL DRIVE



Sample No: VCP378439
Oil Type: MOBIL MOBILUBE HD PLUS 80W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP378439	VCP400073	VCP359613	VCP359526
Sample Date	14 Sep 2023	22 Jun 2023	01 Mar 2023	27 Oct 2022
Machine Hours	5630	5368	5101	4840
Oil Hours	262	267	261	248
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	SEVERE	SEVERE

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OIL CONDITION

Visc @ 40°C	cSt	▲ 330	▲ 330	■ 141	■ 141
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CONTAMINATION

Silicon	ppm	■ 68	■ 67	● 445	● 915
Sodium	ppm	■ 2	■ 3	■ 8	■ 23
Potassium	ppm	■ 5	■ 4	■ 45	■ 65



WEAR METALS

Iron	ppm	■ 280	■ 222	■ 257	● 1817
Copper	ppm	■ <1	■ <1	■ <1	■ 3
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ 0	■ 0	■ <1
Aluminum	ppm	■ 14	■ 13	▲ 120	● 120
Chromium	ppm	■ 3	■ 2	■ 4	▲ 18
Molybdenum	ppm	■ <1	■ <1	■ 2	■ 4
Nickel	ppm	■ <1	0	<1	1
Titanium	ppm	<1	<1	5	10
Silver	ppm	0	0	0	0
Manganese	ppm	■ 2	■ 2	■ 2	■ 14
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	■ 134	189	■ 365	■ 1311
Magnesium	ppm	■ 6	■ 3	56	■ 99
Zinc	ppm	■ 113	■ 114	■ 76	■ 141
Phosphorus	ppm	■ 1025	■ 999	■ 944	■ 1000
Barium	ppm	■ 27	■ 9	■ 0	■ 0
Boron	ppm	■ 180	■ 187	■ 125	■ 138

Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is higher than normal. Confirm oil type.

Depot: SCHGRE
Unique No: 10672299
Signed: Don Baldrige
Report Date: 02 Oct 2023



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GRAPHS

