



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 31011 - FRONT RIGHT FINAL DRIVE



Sample No: VCP379365
Oil Type: MOBIL MOBILUBE HD PLUS 80W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP379365	VCP360988	VCP359528	VCP346019
Sample Date	22 Jun 2023	01 Mar 2023	27 Oct 2022	12 May 2022
Machine Hours	5368	5101	4840	4265
Oil Hours	267	261	248	203
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	SEVERE	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 331	■ 140	■ 138	■ 143
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CONTAMINATION

Silicon	ppm	■ 41	■ 390	▲ 136	▲ 225
Sodium	ppm	■ 2	■ 8	■ 5	■ 5
Potassium	ppm	■ 2	■ 35	■ 8	■ 16



WEAR METALS

Iron	ppm	■ 267	■ 408	■ 331	■ 254
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 12	▲ 105	▲ 26	▲ 53
Chromium	ppm	■ 2	■ 5	■ 4	■ 3
Molybdenum	ppm	■ 0	■ 2	■ 1	■ 2
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	4	1	3
Silver	ppm	0	0	0	<1
Manganese	ppm	■ 2	■ 3	■ 2	■ 2
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	■ 163	■ 474	■ 310	■ 626
Magnesium	ppm	■ <1	54	■ 13	■ 40
Zinc	ppm	■ 103	■ 71	■ 114	■ 228
Phosphorus	ppm	■ 991	■ 972	■ 915	■ 980
Barium	ppm	■ 49	■ 0	■ 0	■ 0
Boron	ppm	■ 184	■ 136	■ 123	■ 87

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: 10546416
Signed: Don Baldrige
Report Date: 07 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

