



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 31011 - FRONT LEFT FINAL DRIVE



Sample No: VCP339690
Oil Type: MOBIL MOBILUBE HD PLUS 80W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP339690	VCP378439	VCP400073	VCP359613
Sample Date	05 Dec 2023	14 Sep 2023	22 Jun 2023	01 Mar 2023
Machine Hours	5899	5630	5368	5101
Oil Hours	269	262	267	261
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ATTENTION	ATTENTION	SEVERE

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OIL CONDITION

Visc @ 40°C	cSt	▲ 325	▲ 330	▲ 330	■ 141
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 202	■ 68	■ 67	■ 445
Sodium	ppm	■ 2	■ 2	■ 3	■ 8
Potassium	ppm	■ 18	■ 5	■ 4	■ 45

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. Confirm oil type.



WEAR METALS

Iron	ppm	▲ 562	■ 280	■ 222	■ 257
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	▲ 48	■ 14	■ 13	▲ 120
Chromium	ppm	■ 5	■ 3	■ 2	■ 4
Molybdenum	ppm	■ <1	■ <1	■ <1	■ 2
Nickel	ppm	■ <1	■ <1	0	<1
Titanium	ppm	2	<1	<1	5
Silver	ppm	0	0	0	0
Manganese	ppm	■ 4	■ 2	■ 2	■ 2
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	222	■ 134	189	■ 365
Magnesium	ppm	■ 19	■ 6	■ 3	56
Zinc	ppm	■ 103	■ 113	■ 114	■ 76
Phosphorus	ppm	■ 1031	■ 1025	■ 999	■ 944
Barium	ppm	■ 16	■ 27	■ 9	■ 0
Boron	ppm	■ 166	■ 180	■ 187	■ 125

Depot: SCHGRE
Unique No: 10789034
Signed: Don Baldrige
Report Date: 17 Dec 2023



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VOLVO GRAPHS

