



CONSTRUCTION EQUIPMENT

634039 CENTRAL SITE VOLVO EC350EL 314289 - EC350EL - DIESEL ENGINE



Sample No: VCP433433
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 634039 CENTRAL SITE



SAMPLE INFORMATION

Sample Number	VCP433433	VCP410374	VCP386213	VCP374170
Sample Date	16 Nov 2023	07 Apr 2023	15 Nov 2022	23 May 2022
Machine Hours	2927	2200	1717	1090
Oil Hours	500	2200	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	▲ 12.0	■ 12.6	▲ 12.3
Base Number (BN)	mg KOH/g	■ 8.7	■ 7.7	■ 10.0	■ 9.1
Oxidation (PA)	%	80	78	94	83



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	73	65	79	68
Sulfation (PA)	%	59	56	69	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 0.5	<1.0	■ 0.5
Silicon	ppm	■ 4	■ 8	■ 5	■ 7
Sodium	ppm	■ 2	■ 0	■ 4	■ 3
Potassium	ppm	■ <1	■ 1	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 3	■ 6	■ 6	■ 8
Copper	ppm	■ 2	■ 16	▲ 53	▲ 71
Lead	ppm	■ <1	■ <1	■ 2	■ 2
Tin	ppm	■ <1	■ <1	■ 2	■ 1
Aluminum	ppm	■ <1	■ 0	■ 1	■ 2
Chromium	ppm	■ 0	■ <1	■ <1	■ 0
Molybdenum	ppm	■ 47	■ 62	■ 43	■ 43
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	1
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1622	■ 1610	■ 1671	■ 1643
Magnesium	ppm	■ 418	■ 420	■ 513	■ 486
Zinc	ppm	■ 1088	■ 1062	■ 1151	■ 1136
Phosphorus	ppm	■ 898	■ 869	■ 889	■ 904
Barium	ppm	■ 0	■ 2	■ 0	■ 0
Boron	ppm	■ 25	■ 34	■ 20	■ 36

Diagnosis

Oil and filter 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 lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0093
Unique No: 10764751
Signed: Don Baldrige
Report Date: 01 Dec 2023



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GRAPHS

