



CONSTRUCTION EQUIPMENT

W02007348 VOLVO EC750E 314079 - EC750E - DIESEL ENGINE



Sample No: VCP418794
Oil Type: MOBIL 15W40
Job No: W02007348



SAMPLE INFORMATION

Sample Number	VCP418794	VCP397769	VCP365925	VCP340822
Sample Date	14 Jul 2023	03 Feb 2023	27 Aug 2022	26 Mar 2022
Machine Hours	3432	2614	1966	1222
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 12.3	■ 12.7	▲ 12.2
Base Number (BN)	mg KOH/g	■ 7.0	■ 7.7	■ 8.5	■ 8.9
Oxidation (PA)	%	73	69	71	89

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.



CONTAMINATION

Soot %	%	■ 0.3	■ 0.2	■ 0.3	■ 0.2
Nitration (PA)	%	78	69	77	83
Sulfation (PA)	%	62	58	61	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 0.6	<1.0	<1.0
Silicon	ppm	■ 7	■ 7	■ 6	■ 9
Sodium	ppm	■ 2	■ 2	■ 2	■ 0
Potassium	ppm	■ <1	■ 2	■ 3	■ 3



WEAR METALS

Iron	ppm	■ 10	■ 7	■ 10	■ 13
Copper	ppm	■ 3	■ 4	■ 12	▲ 75
Lead	ppm	■ 4	■ 2	■ 2	■ 2
Tin	ppm	■ 2	■ 2	■ 2	■ 3
Aluminum	ppm	■ 3	■ 2	■ 2	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 119	■ 78	■ 66	■ 62
Nickel	ppm	■ 1	■ <1	■ 2	■ 0
Titanium	ppm	0	0	0	<1
Silver	ppm	■ 0	■ 0	<1	<1
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1658	■ 1449	■ 1398	■ 1803
Magnesium	ppm	■ 700	■ 639	■ 800	■ 462
Zinc	ppm	■ 935	■ 1016	■ 1244	■ 1107
Phosphorus	ppm	■ 767	■ 829	■ 1046	■ 919
Barium	ppm	■ <1	■ 0	■ 0	■ 0
Boron	ppm	■ 202	■ 119	■ 12	■ 38

Depot: VOLVO0002
Unique No: 10566568
Signed: Sean Felton
Report Date: 25 Jul 2023



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GRAPHS

