



CONSTRUCTION EQUIPMENT

W02007366 VOLVO L70E 60548 - DIESEL ENGINE



Sample No: VCP416110
Oil Type: MOBIL 15W40
Job No: W02007366



SAMPLE INFORMATION

Sample Number	VCP416110	VCP230527	---	---
Sample Date	19 Jul 2023	02 Aug 2018	---	---
Machine Hours	8893	8156	---	---
Oil Hours	500	600	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.4	▲ 11.41	---	---
Base Number (BN)	mg KOH/g	■ 5.8	---	---	---
Oxidation (PA)	%	■ 69	■ 67	---	---

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. Light fuel dilution occurring. No other contaminants were detected 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 %	%	■ 0.6	■ 0.6	---	---
Nitration (PA)	%	■ 63	■ 71	---	---
Sulfation (PA)	%	■ 59	■ 55	---	---
Glycol	%	■ NEG	■ NEG	---	---
Fuel	%	■ 3.7	■ 3.3	---	---
Silicon	ppm	■ 6	■ 4	---	---
Sodium	ppm	■ 2	■ 4	---	---
Potassium	ppm	■ <1	■ 2	---	---



WEAR METALS

Iron	ppm	■ 22	■ 15	---	---
Copper	ppm	■ <1	■ <1	---	---
Lead	ppm	■ 1	■ <1	---	---
Tin	ppm	■ <1	■ 0	---	---
Aluminum	ppm	■ 4	■ 3	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 86	■ 38	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 0	0	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1236	■ 1331	---	---
Magnesium	ppm	■ 441	■ 681	---	---
Zinc	ppm	■ 833	■ 921	---	---
Phosphorus	ppm	■ 747	■ 814	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 252	■ 42	---	---

Depot: VOLVO0002
Unique No: 10566566
Signed: Don Baldrige
Report Date: 26 Jul 2023



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GRAPHS

