



CONSTRUCTION EQUIPMENT

W02007793 VOLVO EC350 314516 - DIESEL ENGINE



Sample No: VCP418746
Oil Type: MOBIL 15W40
Job No: W02007793



SAMPLE INFORMATION

Sample Number	VCP418746	VCP418795	VCP397788	---
Sample Date	01 Dec 2023	24 Aug 2023	02 May 2023	---
Machine Hours	1479	1005	478	---
Oil Hours	500	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	---

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS
 8450 QUARRY ROAD
 MANASSAS, VA
 US 20110
 Contact: MIKE MAYHUGH
 MMAYHUGH@MCCLUNG-LOGAN.COM
 T: (703)393-7344
 F: (703)393-7844



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	▲ 11.8	▲ 10.3	---
Base Number (BN)	mg KOH/g	■ 7.4	■ 6.3	■ 4.5	---
Oxidation (PA)	%	72	65	63	---

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

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.1	■ 0.1	■ 0.1	---
Nitration (PA)	%	73	69	78	---
Sulfation (PA)	%	65	60	53	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 0.8	---
Silicon	ppm	■ 6	■ 10	■ 29	---
Sodium	ppm	■ 27	■ <1	■ 3	---
Potassium	ppm	■ <1	■ 0	■ 4	---



WEAR METALS

Iron	ppm	■ 7	■ 5	■ 10	---
Copper	ppm	■ <1	▲ 86	▲ 373	---
Lead	ppm	■ 0	■ 0	■ 0	---
Tin	ppm	■ 0	■ 1	■ 2	---
Aluminum	ppm	■ 2	■ 4	■ 2	---
Chromium	ppm	■ 0	■ 0	■ <1	---
Molybdenum	ppm	■ 56	■ 107	■ 82	---
Nickel	ppm	■ 0	■ 0	■ 1	---
Titanium	ppm	0	0	0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ <1	■ 3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1067	■ 1853	■ 2241	---
Magnesium	ppm	■ 920	■ 512	■ 21	---
Zinc	ppm	■ 1235	■ 1012	■ 1212	---
Phosphorus	ppm	■ 1011	■ 830	■ 1003	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 1	■ 151	■ 39	---

Depot: VOLVO0002
Unique No: 10777251
Signed: Don Baldrige
Report Date: 09 Dec 2023



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GRAPHS

