



CONSTRUCTION EQUIPMENT

6660 VOLVO L110H 632520 - DIESEL ENGINE



Sample No: VCP422906
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6660



SAMPLE INFORMATION

Sample Number	VCP422906	---	---	---
Sample Date	15 Jun 2023	---	---	---
Machine Hours	485	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 10.2	---	---	---
Oxidation (PA)	%	76	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 30	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 60	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 43	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1762	---	---	---
Magnesium	ppm	673	---	---	---
Zinc	ppm	█ 1256	---	---	---
Phosphorus	ppm	█ 1033	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 54	---	---	---

Depot: ASCMAC
Unique No: 10536801
Signed: Doug Bogart
Report Date: 02 Jul 2023



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GRAPHS

