



CONSTRUCTION EQUIPMENT

W05003895 VOLVO EC300 316329 - DIESEL ENGINE



Sample No: VCP425215
Oil Type: MOBIL 15W40
Job No: W05003895



SAMPLE INFORMATION

Sample Number	VCP425215	VCP395359	---	---
Sample Date	09 Oct 2023	22 Mar 2023	---	---
Machine Hours	1969	1538	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 13.5	---	---
Base Number (BN)	mg KOH/g	█ 7.5	█ 8.6	---	---
Oxidation (PA)	%	67	65	---	---

Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	64	71	---	---
Sulfation (PA)	%	63	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 6	---	---
Sodium	ppm	█ 3	█ <1	---	---
Potassium	ppm	█ <1	█ 4	---	---



WEAR METALS

Iron	ppm	█ 6	█ 6	---	---
Copper	ppm	█ 13	▲ 65	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 4	█ 2	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 143	█ 251	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1511	█ 1585	---	---
Magnesium	ppm	█ 649	█ 907	---	---
Zinc	ppm	█ 821	█ 1248	---	---
Phosphorus	ppm	█ 693	█ 961	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 257	█ 242	---	---

Depot: VOLVO0002
Unique No: 10696518
Signed: Don Baldrige
Report Date: 17 Oct 2023



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GRAPHS

