



CONSTRUCTION EQUIPMENT

SPM621864 VOLVO EC300EL 312535 - DIESEL ENGINE



Sample No: VCP433170
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM621864



SAMPLE INFORMATION

Sample Number	VCP433170	VCP399818	VCP358414	---
Sample Date	07 Nov 2023	21 Mar 2023	22 Apr 2022	---
Machine Hours	3045	2548	2032	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	14.0	13.4	13.6	---
Base Number (BN)	mg KOH/g	9.2	8.3	10.3	---
Oxidation (PA)	%	59	59	88	---

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

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.2	0.3	---
Nitration (PA)	%	58	58	78	---
Sulfation (PA)	%	52	48	65	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	7	10	---
Sodium	ppm	0	0	<1	---
Potassium	ppm	6	5	6	---



WEAR METALS

Iron	ppm	8	11	20	---
Copper	ppm	3	2	5	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	3	2	9	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	60	65	45	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1055	1145	1691	---
Magnesium	ppm	920	848	452	---
Zinc	ppm	1195	1258	1157	---
Phosphorus	ppm	947	1028	947	---
Barium	ppm	0	2	0	---
Boron	ppm	2	60	78	---

Depot: BELBOU
Unique No: 10751281
Signed: Wes Davis
Report Date: 21 Nov 2023



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GRAPHS

