



CONSTRUCTION EQUIPMENT

SPM580911 VOLVO EC250ELR 314201 - DIESEL ENGINE



Sample No: VCP423132
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM580911



SAMPLE INFORMATION

Sample Number	VCP423132	VCP404057	VCP346072	---
Sample Date	21 Jul 2023	17 Jan 2023	02 Apr 2022	---
Machine Hours	2533	2150	527	---
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	12.3	12.5	13.0	---
Base Number (BN)	mg KOH/g	8.2	8.1	8.9	---
Oxidation (PA)	%	65	80	46	---

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	0.1	---
Nitration (PA)	%	71	84	73	---
Sulfation (PA)	%	54	59	51	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	2	5	11	---
Sodium	ppm	0	2	2	---
Potassium	ppm	2	0	3	---



WEAR METALS

Iron	ppm	4	6	12	---
Copper	ppm	10	4	8	---
Lead	ppm	<1	<1	4	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	0	1	3	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	65	48	10	---
Nickel	ppm	<1	<1	4	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1268	1762	2147	---
Magnesium	ppm	873	407	232	---
Zinc	ppm	1292	1111	1105	---
Phosphorus	ppm	1080	906	1019	---
Barium	ppm	2	0	0	---
Boron	ppm	21	37	15	---

Depot: BELBOU
Unique No: 10586130
Signed: Wes Davis
Report Date: 03 Aug 2023



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GRAPHS

