



CONSTRUCTION EQUIPMENT

SPM659984-10 VOLVO EC300EL 314537 - DIESEL ENGINE



Sample No: VCP438922
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM659984-10



SAMPLE INFORMATION

Sample Number	VCP438922	VCP403389	---	---
Sample Date	19 Jan 2024	31 Aug 2023	---	---
Machine Hours	3470	2882	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.3	---	---
Base Number (BN)	mg KOH/g	10.4	9.5	---	---
Oxidation (PA)	%	80	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

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	59	63	---	---
Sulfation (PA)	%	59	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.4	---	---
Silicon	ppm	6	6	---	---
Sodium	ppm	3	3	---	---
Potassium	ppm	11	11	---	---



WEAR METALS

Iron	ppm	6	8	---	---
Copper	ppm	2	2	---	---
Lead	ppm	1	1	---	---
Tin	ppm	1	1	---	---
Aluminum	ppm	6	6	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	48	49	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	1542	1753	---	---
Magnesium	ppm	515	645	---	---
Zinc	ppm	1106	1144	---	---
Phosphorus	ppm	953	908	---	---
Barium	ppm	0	0	---	---
Boron	ppm	41	56	---	---

Depot: VOLVO0090
Unique No: 10857567
Signed: Wes Davis
Report Date: 01 Feb 2024



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GRAPHS

