



CONSTRUCTION EQUIPMENT

SEC VOLVO SD15B 237042 - DIESEL ENGINE



Sample No: VCP417050
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SEC



SAMPLE INFORMATION

Sample Number	VCP417050	VCP370230	---	---
Sample Date	19 Jul 2023	14 Nov 2022	---	---
Machine Hours	1120	460	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.2	12.7	---	---
Base Number (BN)	mg KOH/g	10.1	11.2	---	---
Oxidation (PA)	%	78	82	---	---

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 %	%	0.2	0.1	---	---
Nitration (PA)	%	63	58	---	---
Sulfation (PA)	%	60	64	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	12	18	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	19	7	---	---



WEAR METALS

Iron	ppm	33	33	---	---
Copper	ppm	6	22	---	---
Lead	ppm	0	5	---	---
Tin	ppm	2	3	---	---
Aluminum	ppm	11	11	---	---
Chromium	ppm	2	3	---	---
Molybdenum	ppm	35	31	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1980	1537	---	---
Magnesium	ppm	434	431	---	---
Zinc	ppm	1249	982	---	---
Phosphorus	ppm	1013	841	---	---
Barium	ppm	0	0	---	---
Boron	ppm	51	57	---	---

Depot: VOLVO4596
Unique No: 10575271
Signed: Wes Davis
Report Date: 27 Jul 2023



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GRAPHS

