



CONSTRUCTION EQUIPMENT

ALWAYS WORKN VOLVO EC200EL 314119 - DIESEL ENGINE



Sample No: VCP437850
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: ALWAYS WORKN



SAMPLE INFORMATION

Sample Number	VCP437850	VCP424822	VCP313172	---
Sample Date	01 Mar 2024	27 Mar 2023	13 Apr 2021	---
Machine Hours	1579	1034	472	---
Oil Hours	0	500	472	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	13.5	---
Base Number (BN)	mg KOH/g	9.9	10.1	---	---
Oxidation (PA)	%	80	80	49	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 %	%	0.3	0.4	0.3	---
Nitration (PA)	%	68	70	70	---
Sulfation (PA)	%	59	61	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	12	18	22	---
Sodium	ppm	2	2	3	---
Potassium	ppm	0	2	4	---



WEAR METALS

Iron	ppm	62	122	47	---
Copper	ppm	2	6	11	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	2	3	---
Aluminum	ppm	15	20	24	---
Chromium	ppm	2	4	5	---
Molybdenum	ppm	46	41	8	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	2	4	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1847	1734	2225	---
Magnesium	ppm	549	466	170	---
Zinc	ppm	1205	1142	1035	---
Phosphorus	ppm	1010	969	956	---
Barium	ppm	0	2	0	---
Boron	ppm	25	30	9	---

Depot: VOLVO0093
Unique No: 10995431
Signed: Sean Felton
Report Date: 26 Apr 2024



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GRAPHS

