



CONSTRUCTION EQUIPMENT

703130 RB VOLVO L110H 632535 - DIESEL ENGINE



Sample No: VCP451313
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 703130 RB



SAMPLE INFORMATION

Sample Number	VCP451313	VCP438969	VCP434833	VCP425081
Sample Date	25 Apr 2024	16 Jan 2024	31 Aug 2023	01 Aug 2023
Machine Hours	2591	1889	1027	810
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	12.7	12.6
Base Number (BN)	mg KOH/g	9.8	10.0	9.9	9.4
Oxidation (PA)	%	78	78	74	73



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	61	59	45	58
Sulfation (PA)	%	59	60	58	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	12
Sodium	ppm	2	0	3	4
Potassium	ppm	0	2	0	4



WEAR METALS

Iron	ppm	14	15	6	22
Copper	ppm	1	3	3	11
Lead	ppm	0	1	<1	2
Tin	ppm	<1	2	<1	2
Aluminum	ppm	3	3	9	▲ 46
Chromium	ppm	<1	1	<1	3
Molybdenum	ppm	48	50	43	54
Nickel	ppm	0	1	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	<1	0	1
Manganese	ppm	<1	1	<1	2
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1708	1566	1823	1567
Magnesium	ppm	664	616	514	629
Zinc	ppm	1227	1202	1129	1266
Phosphorus	ppm	1017	920	957	1051
Barium	ppm	0	1	0	10
Boron	ppm	32	35	78	123

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.

Depot: VOLVO0096
Unique No: 11006057
Signed: Wes Davis
Report Date: 02 May 2024



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GRAPHS

