



CONSTRUCTION EQUIPMENT

567901 VOLVO L110H 632273 - DIESEL ENGINE



Sample No: VCP412114
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 567901



SAMPLE INFORMATION

Sample Number	VCP412114	VCP424509	VCP423512	VCP386644
Sample Date	28 Jun 2023	20 Jun 2023	23 Mar 2023	29 Nov 2022
Machine Hours	2095	2490	1526	1001
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



RIPA AND ASSOCIATES

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OIL CONDITION

Visc @ 100°C	cSt	12.4	13.1	12.2	12.6
Base Number (BN)	mg KOH/g	10.1	10.4	10.0	11.1
Oxidation (PA)	%	80	80	80	82



CONTAMINATION

Soot %	%	0.2	0.3	0.2	0.2
Nitration (PA)	%	61	69	64	70
Sulfation (PA)	%	60	61	61	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	8
Sodium	ppm	3	2	2	1
Potassium	ppm	0	2	0	2



WEAR METALS

Iron	ppm	8	12	12	17
Copper	ppm	<1	2	2	3
Lead	ppm	0	<1	0	<1
Tin	ppm	0	1	<1	1
Aluminum	ppm	2	5	5	12
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	52	49	89	43
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1744	1670	1719	1743
Magnesium	ppm	526	494	545	546
Zinc	ppm	1120	1087	1138	1167
Phosphorus	ppm	943	870	951	970
Barium	ppm	0	0	0	2
Boron	ppm	42	27	50	34

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: RIPTAM
Unique No: 10573997
Signed: Wes Davis
Report Date: 27 Jul 2023



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VOLVO GRAPHS

