



CONSTRUCTION EQUIPMENT

4521 VOLVO L60H 621091 - DIESEL ENGINE



Sample No: VCP408528
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 4521



SAMPLE INFORMATION

Sample Number	VCP408528	VCP391291	VCP364052	VCP283257
Sample Date	24 Apr 2023	04 Jan 2023	29 Aug 2022	17 May 2022
Machine Hours	8205	7622	7015	6559
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	13.1	13.4
Base Number (BN)	mg KOH/g	11.0	10.4	11.7	10.9
Oxidation (PA)	%	86	81	87	84

CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	74	67	67	64
Sulfation (PA)	%	61	59	64	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	5	5
Sodium	ppm	3	3	2	2
Potassium	ppm	<1	0	1	1

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.

WEAR METALS

Iron	ppm	7	8	7	6
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	4	5	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	46	44	46	45
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	1951	1646	1697	1745
Magnesium	ppm	557	508	487	525
Zinc	ppm	1258	1123	1158	1212
Phosphorus	ppm	1038	916	974	1000
Barium	ppm	0	0	2	0
Boron	ppm	37	32	33	43

Depot: VOLVO8531
Unique No: 10536792
Signed: Wes Davis
Report Date: 02 Jul 2023



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VOLVO GRAPHS

