



CONSTRUCTION EQUIPMENT

45156 VOLVO L60H 621091 - DIESEL ENGINE



Sample No: VCP416054
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 45156



SAMPLE INFORMATION

Sample Number	VCP416054	VCP408528	VCP391291	VCP364052
Sample Date	14 Jul 2023	24 Apr 2023	04 Jan 2023	29 Aug 2022
Machine Hours	8600	8205	7622	7015
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.1	12.9	13.1
Base Number (BN)	mg KOH/g	10.6	11.0	10.4	11.7
Oxidation (PA)	%	80	86	81	87

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	0.3	0.3	0.3
Nitration (PA)	%	62	74	67	67
Sulfation (PA)	%	58	61	59	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	5
Sodium	ppm	2	3	3	2
Potassium	ppm	<1	<1	0	1



WEAR METALS

Iron	ppm	5	7	8	7
Copper	ppm	2	<1	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	<1	2	4	5
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	40	46	44	46
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1758	1951	1646	1697
Magnesium	ppm	545	557	508	487
Zinc	ppm	1156	1258	1123	1158
Phosphorus	ppm	940	1038	916	974
Barium	ppm	0	0	0	2
Boron	ppm	38	37	32	33

Depot: VOLVO8531
Unique No: 10660811
Signed: Wes Davis
Report Date: 26 Sep 2023



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VOLVO GRAPHS

