



CONSTRUCTION EQUIPMENT

45151 VOLVO L60H 621088 - DIESEL ENGINE



Sample No: VCP424593
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 45151



SAMPLE INFORMATION

Sample Number	VCP424593	VCP368088	VCP374308	VCP342605
Sample Date	14 Jul 2023	28 Oct 2022	07 Jun 2022	17 Nov 2021
Machine Hours	11639	10972	10511	9949
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	13.0	13.1
Base Number (BN)	mg KOH/g	10.4	11.6	9.5	---
Oxidation (PA)	%	80	86	73	72

CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	75	70	65	61
Sulfation (PA)	%	58	64	57	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	6	6
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	0	<1	0

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	8	7	7	6
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	4	4	6	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	49	47	50	54
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1869	1648	1566	1745
Magnesium	ppm	493	539	598	526
Zinc	ppm	1199	1184	1136	1112
Phosphorus	ppm	957	942	940	947
Barium	ppm	0	0	0	0
Boron	ppm	36	36	37	32

Depot: VOLVO8531
Unique No: 10660819
Signed: Wes Davis
Report Date: 26 Sep 2023



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GRAPHS

