



CONSTRUCTION EQUIPMENT

0330 WASTE MGMT VOLVO L90H 624438 - DIESEL ENGINE



Sample No: VCP437652
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 0330 WASTE MGMT



SAMPLE INFORMATION

Sample Number	VCP437652	VCP431530	VCP431652	VCP432735
Sample Date	26 Jan 2024	15 Dec 2023	27 Oct 2023	01 Sep 2023
Machine Hours	13382	12918	12363	11842
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	12.5	12.6	12.8	12.5
Base Number (BN)	mg KOH/g	9.8	9.7	10.0	9.5
Oxidation (PA)	%	81	83	84	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0.4	0.4
Nitration (PA)	%	60	65	65	67
Sulfation (PA)	%	60	61	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	11	15	22
Sodium	ppm	2	2	0	3
Potassium	ppm	<1	2	1	0



WEAR METALS

Iron	ppm	3	4	7	9
Copper	ppm	1	0	<1	1
Lead	ppm	1	0	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	4	5	5	12
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	36	41	46	42
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1513	1630	1587	1800
Magnesium	ppm	455	509	525	529
Zinc	ppm	1010	1102	1106	1163
Phosphorus	ppm	852	911	924	964
Barium	ppm	0	0	4	0
Boron	ppm	35	28	24	22

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: 10858564
Signed: Wes Davis
Report Date: 01 Feb 2024



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GRAPHS

