



CONSTRUCTION EQUIPMENT

546761 WASTE MGMT VOLVO L90H 624438 - DIESEL ENGINE



Sample No: VCP451268
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 546761 WASTE MGMT



SAMPLE INFORMATION

Sample Number	VCP451268	VCP437652	VCP431530	VCP431652
Sample Date	26 Apr 2024	26 Jan 2024	15 Dec 2023	27 Oct 2023
Machine Hours	13898	13382	12918	12363
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	12.8	12.5	12.6	12.8
Base Number (BN)	mg KOH/g	8.2	9.8	9.7	10.0
Oxidation (PA)	%	79	81	83	84

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.4	0.4
Nitration (PA)	%	66	60	65	65
Sulfation (PA)	%	58	60	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	14	10	11	15
Sodium	ppm	<1	2	2	0
Potassium	ppm	2	<1	2	1



WEAR METALS

Iron	ppm	8	3	4	7
Copper	ppm	<1	1	0	<1
Lead	ppm	<1	1	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	7	4	5	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	49	36	41	46
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1559	1513	1630	1587
Magnesium	ppm	662	455	509	525
Zinc	ppm	1207	1010	1102	1106
Phosphorus	ppm	968	852	911	924
Barium	ppm	0	0	0	4
Boron	ppm	20	35	28	24

Depot: VOLVO0096
Unique No: 11018534
Signed: Wes Davis
Report Date: 09 May 2024



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VOLVO GRAPHS

