



CONSTRUCTION EQUIPMENT

624438 WM VOLVO L90H 624438 - DIESEL ENGINE



Sample No: VCP431530
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 624438 WM



SAMPLE INFORMATION

Sample Number	VCP431530	VCP431652	VCP432735	VCP417658
Sample Date	15 Dec 2023	27 Oct 2023	01 Sep 2023	10 Jul 2023
Machine Hours	12918	12363	11842	11301
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	12.5	12.4
Base Number (BN)	mg KOH/g	9.7	10.0	9.5	9.7
Oxidation (PA)	%	83	84	84	86

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.4	0.4
Nitration (PA)	%	65	65	67	68
Sulfation (PA)	%	61	61	61	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	3.6
Silicon	ppm	11	15	22	25
Sodium	ppm	2	0	3	4
Potassium	ppm	2	1	0	0



WEAR METALS

Iron	ppm	4	7	9	6
Copper	ppm	0	<1	1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	5	5	12	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	46	42	45
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1630	1587	1800	1852
Magnesium	ppm	509	525	529	535
Zinc	ppm	1102	1106	1163	1150
Phosphorus	ppm	911	924	964	961
Barium	ppm	0	4	0	0
Boron	ppm	28	24	22	25

Depot: VOLVO0096
Unique No: 10795609
Signed: Don Baldrige
Report Date: 21 Dec 2023



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VOLVO GRAPHS

