



CONSTRUCTION EQUIPMENT

S50601324 IAA BAY PT VOLVO L90G 617359 - DIESEL ENGINE



Sample No: VCP403986
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50601324 IAA BAY PT



SAMPLE INFORMATION

Sample Number	VCP403986	VCP340933	VCP343081	VCP363834
Sample Date	07 Nov 2023	19 Jul 2023	24 Mar 2023	29 Dec 2022
Machine Hours	16929	16466	16042	15614
Oil Hours	0	0	0	800
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.1	13.0	13.3
Base Number (BN)	mg KOH/g	10.6	10.5	8.6	10.9
Oxidation (PA)	%	82	80	88	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 %	%	0.3	0.3	0.6	0.3
Nitration (PA)	%	58	57	96	71
Sulfation (PA)	%	61	60	70	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	7	9
Sodium	ppm	78	44	34	29
Potassium	ppm	29	23	20	17



WEAR METALS

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



ADDITIVES

Calcium	ppm	1703	1797	1768	1714
Magnesium	ppm	508	525	529	499
Zinc	ppm	1141	1183	1210	1090
Phosphorus	ppm	960	981	960	1002
Barium	ppm	<1	1	0	0
Boron	ppm	37	41	40	37

Depot: VOLVO4487
Unique No: 10737058
Signed: Wes Davis
Report Date: 10 Nov 2023



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GRAPHS

