



CONSTRUCTION EQUIPMENT

993 VOLVO L90H 626329 - DIESEL ENGINE



Sample No: VCP438062
Oil Type: MOBIL 15W40
Job No: 993



SAMPLE INFORMATION

Sample Number	VCP438062	VCP295345	VCP337600	---
Sample Date	20 May 2024	24 Jul 2023	08 Dec 2022	---
Machine Hours	3525	1943	826	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
 12345 MAPLEVIEW STREET
 LAKESIDE, CA
 US 92040
 Contact: Mark Stewart
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 T: X
 F: X



OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	12.5	---
Base Number (BN)	mg KOH/g	10.0	9.1	11.0	---
Oxidation (PA)	%	85	76	85	---

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	---
Soot %	%	0.2	0.3	0.2	---
Nitration (PA)	%	67	76	68	---
Sulfation (PA)	%	62	58	65	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	7	19	---
Sodium	ppm	4	3	2	---
Potassium	ppm	2	0	2	---



WEAR METALS

Iron	ppm	12	17	32	---
Copper	ppm	2	4	10	---
Lead	ppm	<1	<1	1	---
Tin	ppm	2	1	3	---
Aluminum	ppm	4	3	11	---
Chromium	ppm	1	1	2	---
Molybdenum	ppm	41	37	42	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	1	0	0	---
Manganese	ppm	1	<1	5	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1697	1879	1656	---
Magnesium	ppm	503	472	592	---
Zinc	ppm	1159	1165	1172	---
Phosphorus	ppm	967	949	994	---
Barium	ppm	0	0	0	---
Boron	ppm	33	23	40	---

Depot: VOLVO4488
Unique No: 11050418
Signed: Wes Davis
Report Date: 30 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

