



CONSTRUCTION EQUIPMENT

VOLVO L90H 625542 - DIESEL ENGINE



Sample No: VCP0007784
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP0007784	VCP0007463	VCP0006211	---
Sample Date	22 Jan 2024	04 Apr 2023	04 Jan 2023	---
Machine Hours	10182	8228	0	---
Oil Hours	10182	8228	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.3	13.5	---
Base Number (BN)	mg KOH/g	9.7	7.7	10.1	---
Oxidation (PA)	%	86	85	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	---
Soot %	%	0.4	0.6	0.5	---
Nitration (PA)	%	84	89	80	---
Sulfation (PA)	%	60	57	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	5	5	---
Sodium	ppm	0	2	1	---
Potassium	ppm	0	0	1	---



WEAR METALS

Iron	ppm	9	18	14	---
Copper	ppm	<1	1	<1	---
Lead	ppm	<1	0	<1	---
Tin	ppm	1	0	<1	---
Aluminum	ppm	3	5	4	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	39	48	47	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1650	1850	1695	---
Magnesium	ppm	516	571	519	---
Zinc	ppm	1129	1190	1115	---
Phosphorus	ppm	928	964	936	---
Barium	ppm	<1	0	0	---
Boron	ppm	16	15	29	---

Depot: VOLVO0092
Unique No: 10846881
Signed: Wes Davis
Report Date: 25 Jan 2024



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GRAPHS

