



CONSTRUCTION EQUIPMENT

VOLVO L90H 624919 - DIESEL ENGINE



Sample No: VCP0007789
Oil Type: Diesel Engine Oil
Job No:



SAMPLE INFORMATION

Sample Number	VCP0007789	VCP0007458	VCP0006206	---
Sample Date	22 Jan 2024	04 Apr 2023	04 Jan 2023	---
Machine Hours	16598	13058	13058	---
Oil Hours	16598	13058	13058	---
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	12.9	13.2	---
Base Number (BN)	mg KOH/g	9.6	7.8	10.2	---
Oxidation (PA)	%	86	84	84	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.4	0.3	---
Nitration (PA)	%	83	81	73	---
Sulfation (PA)	%	59	56	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	8	---
Sodium	ppm	0	3	3	---
Potassium	ppm	0	0	0	---



WEAR METALS

Iron	ppm	9	22	23	---
Copper	ppm	<1	4	5	---
Lead	ppm	<1	0	<1	---
Tin	ppm	1	2	2	---
Aluminum	ppm	4	3	3	---
Chromium	ppm	<1	1	2	---
Molybdenum	ppm	39	46	45	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1640	1811	1654	---
Magnesium	ppm	519	545	511	---
Zinc	ppm	1131	1159	1100	---
Phosphorus	ppm	940	936	892	---
Barium	ppm	<1	0	0	---
Boron	ppm	16	15	20	---

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.

Depot: VOLVO0092
Unique No: 10846884
Signed: Don Baldrige
Report Date: 26 Jan 2024



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GRAPHS

