



CONSTRUCTION EQUIPMENT

SPM634384-10 OLD CAS VOLVO L90H 626615 - DIESEL ENGINE



Sample No: VCP426562
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SPM634384-10 OLD CAS



SAMPLE INFORMATION

Sample Number	VCP426562	---	---	---
Sample Date	22 Nov 2023	---	---	---
Machine Hours	309	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	71	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other metal levels are typical for a new component breaking in. 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	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	56	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 18	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	▲ 38	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 42	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1503	---	---	---
Magnesium	ppm	█ 572	---	---	---
Zinc	ppm	█ 1080	---	---	---
Phosphorus	ppm	█ 991	---	---	---
Barium	ppm	█ 3	---	---	---
Boron	ppm	█ 55	---	---	---

Depot: VOLVO0090
Unique No: 10763877
Signed: Don Baldrige
Report Date: 01 Dec 2023



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GRAPHS

