



CONSTRUCTION EQUIPMENT

ARNON DEVELOPMENT VOLVO L110F 61750 - DIESEL ENGINE



Sample No: VCP436040
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: ARNON DEVELOPMENT



SAMPLE INFORMATION

Sample Number	VCP436040	---	---	---
Sample Date	01 Nov 2023	---	---	---
Machine Hours	7227	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

ALTA EQUIPMENT

5985 COURT STREET ROAD
SYRACUSE, NY
US 13206
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 11.3	---	---	---
Oxidation (PA)	%	73	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	94	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	🔴 0.10	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 11	---	---	---
Sodium	ppm	▲ 446	---	---	---
Potassium	ppm	▲ 331	---	---	---



WEAR METALS

Iron	ppm	█ 14	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 16	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 61	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 23	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1968	---	---	---
Magnesium	ppm	█ 466	---	---	---
Zinc	ppm	█ 1349	---	---	---
Phosphorus	ppm	█ 1054	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 26	---	---	---

Depot: VOLV00142
Unique No: 10727220
Signed: Wes Davis
Report Date: 07 Nov 2023



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GRAPHS

