



CONSTRUCTION EQUIPMENT

X58494 VOLVO L120H 632701 - DIESEL ENGINE



Sample No: VCP413363
Oil Type: NOT GIVEN
Job No: X58494



SAMPLE INFORMATION

Sample Number	VCP413363	---	---	---
Sample Date	06 Sep 2023	---	---	---
Machine Hours	1082	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 8.3	---	---	---
Oxidation (PA)	%	75	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The aluminum level is severe. Piston wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	72	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 18	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 1	---	---	---



WEAR METALS

Iron	ppm	█ 36	---	---	---
Copper	ppm	█ 25	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	● 152	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 26	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	9	---	---	---
Silver	ppm	█ 1	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1517	---	---	---
Magnesium	ppm	█ 676	---	---	---
Zinc	ppm	█ 1036	---	---	---
Phosphorus	ppm	█ 862	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 48	---	---	---

Depot: SCOSAI
Unique No: 10644709
Signed: Jonathan Hester
Report Date: 15 Sep 2023



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GRAPHS

