



CONSTRUCTION EQUIPMENT

X18615 VOLVO L110H 632507 - DIESEL ENGINE



Sample No: VCP433083
Oil Type: SHELL ROTELLA T 15W40
Job No: X18615



SAMPLE INFORMATION

Sample Number	VCP433083	---	---	---
Sample Date	15 May 2024	---	---	---
Machine Hours	637	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.9	---	---	---
Oxidation (PA)	%	71	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. 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)	%	52	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 4	---	---	---



WEAR METALS

Iron	ppm	█ 31	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 152	---	---	---
Chromium	ppm	█ 7	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 2	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1484	---	---	---
Magnesium	ppm	█ 567	---	---	---
Zinc	ppm	█ 1115	---	---	---
Phosphorus	ppm	█ 1003	---	---	---
Barium	ppm	█ 8	---	---	---
Boron	ppm	█ 65	---	---	---

Depot: VOLVO8771
Unique No: 11032232
Signed: Jonathan Hester
Report Date: 18 May 2024



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GRAPHS

