



CONSTRUCTION EQUIPMENT

VOLVO L110H 204131 - DIESEL ENGINE



Sample No: VCP402661
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP402661	---	---	---
Sample Date	30 Aug 2023	---	---	---
Machine Hours	9915	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 5151 DR MARTIN LUTHER KING BLVD
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 6.8	---	---	---
Oxidation (PA)	%	96	---	---	---



CONTAMINATION

Soot %	%	█ 0.8	---	---	---
Nitration (PA)	%	91	---	---	---
Sulfation (PA)	%	70	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 53	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 46	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	▲ 34	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 61	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1814	---	---	---
Magnesium	ppm	█ 565	---	---	---
Zinc	ppm	█ 1292	---	---	---
Phosphorus	ppm	█ 1026	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 65	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.

Depot: VOLVO0090
Unique No: 10632425
Signed: Sean Felton
Report Date: 06 Sep 2023



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GRAPHS

