



CONSTRUCTION EQUIPMENT

6561 VOLVO L110H 631441 - DIESEL ENGINE



Sample No: VCP421101
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6561



SAMPLE INFORMATION

Sample Number	VCP421101	VCP370142	---	---
Sample Date	11 May 2023	07 Dec 2022	---	---
Machine Hours	10864	10244	---	---
Oil Hours	0	10244	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	█ 13.8	---	---
Base Number (BN)	mg KOH/g	█ 10.7	█ 10.9	---	---
Oxidation (PA)	%	85	94	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 suitable for further service.

CONTAMINATION

Soot %	%	█ 0.3	█ 0.4	---	---
Nitration (PA)	%	72	86	---	---
Sulfation (PA)	%	62	67	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 18	▲ 20	---	---
Sodium	ppm	█ 10	█ 9	---	---
Potassium	ppm	█ 1	█ 0	---	---

WEAR METALS

Iron	ppm	█ 20	█ 17	---	---
Copper	ppm	█ 1	█ 1	---	---
Lead	ppm	█ 0	█ 2	---	---
Tin	ppm	█ 0	█ 1	---	---
Aluminum	ppm	█ 12	▲ 11	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 47	█ 50	---	---
Nickel	ppm	█ 0	█ 1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1770	█ 1774	---	---
Magnesium	ppm	█ 618	█ 527	---	---
Zinc	ppm	█ 1253	█ 1179	---	---
Phosphorus	ppm	█ 1012	█ 974	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 25	█ 18	---	---

Depot: ASCMAC
Unique No: 10536791
Signed: Doug Bogart
Report Date: 02 Jul 2023



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GRAPHS

