



CONSTRUCTION EQUIPMENT

6524 VOLVO L60H 621842 - DIESEL ENGINE



Sample No: VCP421286
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6524



SAMPLE INFORMATION

Sample Number	VCP421286	VCP389207	VCP372589	---
Sample Date	01 May 2023	14 Feb 2023	05 Aug 2022	---
Machine Hours	3500	3096	2392	---
Oil Hours	0	3096	2000	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

364 - ASCENDUM MACHINERY INC - MACON
 4807 HARRISON RD
 MACON, GA
 US 31206
 Contact: HALIE BAKER
 halie.baker@ascendummachinery.com
 T:
 F: (478)200-5859

OIL CONDITION

Visc @ 100°C	cSt	■ 12.6	▲ 12.4	■ 12.6	---
Base Number (BN)	mg KOH/g	■ 10.5	■ 9.2	■ 9.3	---
Oxidation (PA)	%	85	88	95	---

CONTAMINATION

Soot %	%	■ 0.3	■ 0.5	■ 0.5	---
Nitration (PA)	%	70	88	98	---
Sulfation (PA)	%	62	63	68	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 2.2	▲ 4.4	<1.0	---
Silicon	ppm	■ 4	■ 7	■ 8	---
Sodium	ppm	■ 3	■ 2	■ 2	---
Potassium	ppm	■ 1	■ 0	■ 2	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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.

WEAR METALS

Iron	ppm	■ 6	■ 13	■ 22	---
Copper	ppm	■ <1	■ 2	■ 4	---
Lead	ppm	■ 0	■ <1	■ 1	---
Tin	ppm	■ 0	■ 1	■ 2	---
Aluminum	ppm	■ 2	■ 10	■ 15	---
Chromium	ppm	■ <1	■ 1	■ 1	---
Molybdenum	ppm	■ 37	■ 38	■ 41	---
Nickel	ppm	■ 0	■ 0	■ 0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	■ 0	■ 0	0	---
Manganese	ppm	■ 0	■ <1	■ <1	---
Vanadium	ppm	0	0	<1	---

ADDITIVES

Calcium	ppm	■ 1661	■ 1602	■ 1636	---
Magnesium	ppm	■ 477	■ 471	■ 473	---
Zinc	ppm	■ 1109	■ 1153	■ 1108	---
Phosphorus	ppm	■ 899	■ 927	■ 898	---
Barium	ppm	■ 0	■ 0	■ 2	---
Boron	ppm	■ 31	■ 23	■ 20	---

Depot: ASCMAC
Unique No: 10536800
Signed: Wes Davis
Report Date: 02 Jul 2023



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GRAPHS

