



CONSTRUCTION EQUIPMENT

402883 VOLVO L30GS 3224706 - DIESEL ENGINE



Sample No: VCP434283
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 402883



SAMPLE INFORMATION

Sample Number	VCP434283	VCP371350	---	---
Sample Date	01 Nov 2023	09 Dec 2022	---	---
Machine Hours	1298	499	---	---
Oil Hours	0	499	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	14.2	▲ 11.4	---	---
Base Number (BN)	mg KOH/g	7.7	■ 10.0	---	---
Oxidation (PA)	%	90	95	---	---



CONTAMINATION

Soot %	%	0.1	■ 0.1	---	---
Nitration (PA)	%	91	85	---	---
Sulfation (PA)	%	63	67	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.4	---	---
Silicon	ppm	10	■ 18	---	---
Sodium	ppm	5	■ 5	---	---
Potassium	ppm	0	■ <1	---	---



WEAR METALS

Iron	ppm	13	■ 18	---	---
Copper	ppm	▲ 81	■ 43	---	---
Lead	ppm	<1	■ 3	---	---
Tin	ppm	0	■ <1	---	---
Aluminum	ppm	2	■ 3	---	---
Chromium	ppm	1	■ 2	---	---
Molybdenum	ppm	47	■ 39	---	---
Nickel	ppm	0	■ <1	---	---
Titanium	ppm	<1	■ <1	---	---
Silver	ppm	0	■ <1	---	---
Manganese	ppm	1	■ 4	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1749	■ 1974	---	---
Magnesium	ppm	624	■ 460	---	---
Zinc	ppm	1343	■ 1146	---	---
Phosphorus	ppm	993	■ 876	---	---
Barium	ppm	0	■ 0	---	---
Boron	ppm	10	■ 31	---	---

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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 acceptable for the time in service.

Depot: VOLVO0090
Unique No: 10726078
Signed: Don Baldrige
Report Date: 06 Nov 2023



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GRAPHS

