



CONSTRUCTION EQUIPMENT

W09-2687 VOLVO A30G 742607 - DIESEL ENGINE



Sample No: VCP441121

Oil Type: NOT GIVEN

Job No: W09-2687



SAMPLE INFORMATION

Sample Number	VCP441121	VCP393216	VCP321446	---
Sample Date	14 Dec 2023	13 Jun 2023	08 Sep 2021	---
Machine Hours	2511	1998	486	---
Oil Hours	500	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---



MCLLUNG-LOGAN EQUIPMENT CO - WISE

PO BOX 1158

WISE, VA

US 24293

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	■ 12.1	▲ 9.3	---
Base Number (BN)	mg KOH/g	■ 6.2	■ 7.6	---	---
Oxidation (PA)	%	70	63	56	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.2	■ 0.2	■ 0.2	---
Nitration (PA)	%	79	60	53	---
Sulfation (PA)	%	55	56	51	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 4.2	■ 2.9	▲ 7.4	---
Silicon	ppm	■ 3	■ 4	■ 37	---
Sodium	ppm	■ 0	■ 1	■ 2	---
Potassium	ppm	■ 2	■ 2	■ 3	---



WEAR METALS

Iron	ppm	■ 7	■ 3	■ 15	---
Copper	ppm	■ 11	■ 7	▲ 231	---
Lead	ppm	■ 0	■ 0	■ <1	---
Tin	ppm	■ <1	■ <1	■ 3	---
Aluminum	ppm	■ 2	■ 1	■ <1	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 50	■ 79	■ <1	---
Nickel	ppm	■ 0	■ 0	■ <1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	■ 0	■ 0	<1	---
Manganese	ppm	0	<1	4	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	■ 1196	■ 1867	■ 2046	---
Magnesium	ppm	■ 632	■ 277	■ 6	---
Zinc	ppm	■ 890	■ 1249	■ 1076	---
Phosphorus	ppm	786	■ 1030	■ 918	---
Barium	ppm	■ 0	■ 0	■ 1	---
Boron	ppm	■ 46	■ 285	■ 2	---

Depot: VOLVO8881

Unique No: 10806371

Signed: Jonathan Hester

Report Date: 29 Dec 2023



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GRAPHS

