



CONSTRUCTION EQUIPMENT

VOLVO A30G 742530 - DIESEL ENGINE



Sample No: VCP420850
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP420850	VCP344898	VCP347253	---
Sample Date	25 Aug 2023	27 Sep 2022	02 Mar 2022	---
Machine Hours	2425	1509	955	---
Oil Hours	400	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	▲ 12.3	■ 11.6	---
Base Number (BN)	mg KOH/g	■ 6.8	■ 10.7	■ 6.1	---
Oxidation (PA)	%	49	86	67	---



CONTAMINATION

Soot %	%	■ 0.2	■ 0.3	■ 0.2	---
Nitration (PA)	%	53	66	75	---
Sulfation (PA)	%	50	66	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 3.5	■ 2.3	▲ 3.4	---
Silicon	ppm	■ 4	■ 7	■ 9	---
Sodium	ppm	■ 2	■ 2	■ 2	---
Potassium	ppm	■ 1	■ 0	■ <1	---



WEAR METALS

Iron	ppm	■ 6	■ 8	■ 10	---
Copper	ppm	■ <1	▲ 25	▲ 163	---
Lead	ppm	■ 0	■ 2	■ 2	---
Tin	ppm	■ <1	■ 2	■ 1	---
Aluminum	ppm	■ 2	■ 0	■ 1	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 74	■ 37	■ 39	---
Nickel	ppm	■ 0	■ <1	■ 0	---
Titanium	ppm	■ 0	■ <1	<1	---
Silver	ppm	■ 0	0	0	---
Manganese	ppm	■ <1	■ <1	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 1601	■ 1679	■ 1447	---
Magnesium	ppm	■ 404	■ 490	■ 585	---
Zinc	ppm	■ 1163	■ 1024	■ 898	---
Phosphorus	ppm	■ 1006	■ 898	735	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 302	■ 40	■ 46	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO4589
Unique No: 10628673
Signed: Wes Davis
Report Date: 31 Aug 2023



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GRAPHS

