



CONSTRUCTION EQUIPMENT

SWO-063209 VOLVO A30G 742048 - DIESEL ENGINE



Sample No: VCP414004
Oil Type: NOT GIVEN
Job No: SWO-063209



SAMPLE INFORMATION

Sample Number	VCP414004	VCP380979	VCP372983	---
Sample Date	31 Jul 2023	10 Jan 2023	10 Jul 2022	---
Machine Hours	8911	8548	8263	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	MARGINAL	ABNORMAL	---

WHITAKER CONTRACTING

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.4	11.6	▲ 11.7	---
Base Number (BN)	mg KOH/g	■ 9.5	■ 10.3	■ 10.5	---
Oxidation (PA)	%	80	76	78	---

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. 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

Soot %	%	■ 0.2	■ 0.2	■ 0.2	---
Nitration (PA)	%	62	59	59	---
Sulfation (PA)	%	59	58	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 4.6	▲ 2.9	▲ 3.0	---
Silicon	ppm	■ 4	■ 8	■ 5	---
Sodium	ppm	■ 2	■ 3	■ 2	---
Potassium	ppm	■ <1	■ 0	■ 0	---



WEAR METALS

Iron	ppm	■ 5	■ 4	■ 4	---
Copper	ppm	■ 3	■ <1	■ <1	---
Lead	ppm	■ <1	■ <1	■ <1	---
Tin	ppm	■ 0	■ <1	■ 1	---
Aluminum	ppm	■ 1	■ <1	■ 1	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 43	■ 42	■ 40	---
Nickel	ppm	■ 0	■ 0	■ 0	---
Titanium	ppm	0	0	0	---
Silver	ppm	■ 0	■ 0	■ <1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 1713	■ 1688	■ 1561	---
Magnesium	ppm	■ 519	■ 496	■ 526	---
Zinc	ppm	■ 1133	■ 1036	■ 1042	---
Phosphorus	ppm	■ 954	■ 928	■ 880	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 55	■ 60	■ 63	---

Depot: WHIGUN
Unique No: 10587688
Signed: Don Baldrige
Report Date: 08 Aug 2023



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GRAPHS

