



CONSTRUCTION EQUIPMENT

9124 VOLVO A30G 742582 - DIESEL ENGINE



Sample No: VCP408913
Oil Type: CHEVRON 15W40
Job No: 9124



SAMPLE INFORMATION

Sample Number	VCP408913	VCP389421	VCP318312	VCP272125
Sample Date	31 Aug 2023	03 Nov 2022	12 Oct 2021	30 Jul 2020
Machine Hours	3287	2553	2035	1603
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

RELIABLE CONTRACTING
 2410 EVERGREEN RD SUITE 200
 GAMBRILLS, MD
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.2	▲ 11.3	▲ 10.4	▲ 11.5
Base Number (BN)	mg KOH/g	■ 6.4	■ 9.1	---	---
Oxidation (PA)	%	63	73	75	55

CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	63	70	68	76
Sulfation (PA)	%	60	67	58	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	● 6.0	▲ 4.4	▲ 5.4	▲ 4.2
Silicon	ppm	■ 4	■ 5	■ 2	■ 4
Sodium	ppm	■ 1	■ <1	■ 0	■ 2
Potassium	ppm	■ 0	■ 0	■ 1	■ 3

WEAR METALS

Iron	ppm	■ 6	■ 6	■ 5	■ 6
Copper	ppm	■ 3	■ 4	■ 4	■ 5
Lead	ppm	■ 0	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 2	■ 3	■ 0	■ 1
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 91	■ 102	■ 41	■ 22
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	0	<1	2	■ 12
Silver	ppm	■ 0	0	0	0
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	■ 1479	■ 1504	■ 1499	■ 1419
Magnesium	ppm	■ 455	■ 609	■ 482	■ 620
Zinc	ppm	■ 1104	■ 834	■ 956	■ 699
Phosphorus	ppm	■ 937	■ 717	■ 871	■ 657
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 339	■ 261	■ 61	■ 63

Diagnosis

We advise that you check the fuel injection system. 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 high 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. The oil is no longer serviceable due to the presence of contaminants.

Depot: RELMIL
Unique No: 10634933
Signed: Wes Davis
Report Date: 08 Sep 2023



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GRAPHS

