



CONSTRUCTION EQUIPMENT

9127 VOLVO A30G 742483 - DIESEL ENGINE



Sample No: VCP423080
Oil Type: CHEVRON 15W40
Job No: 9127



SAMPLE INFORMATION

Sample Number	VCP423080	VCP344970	VCP321649	VCP291504
Sample Date	30 Aug 2023	22 Feb 2022	14 Jul 2021	04 Nov 2020
Machine Hours	4028	2977	2221	1769
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	ABNORMAL	ABNORMAL

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

Visc @ 100°C	cSt	▲ 10.8	▲ 10.4	▲ 11.4	▲ 11.3
Base Number (BN)	mg KOH/g	■ 7.3	■ 7.5	---	---
Oxidation (PA)	%	51	67	67	55

CONTAMINATION

Soot %	%	■ 0.2	■ 0.3	■ 0.2	■ 0.2
Nitration (PA)	%	58	78	75	78
Sulfation (PA)	%	50	62	62	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 8.2	● 11.3	▲ 5.5	▲ 7.2
Silicon	ppm	■ 3	■ 5	■ 5	■ 5
Sodium	ppm	■ 1	■ <1	■ 20	■ 2
Potassium	ppm	■ 0	■ <1	■ <1	■ 2

WEAR METALS

Iron	ppm	■ 4	■ 8	■ 7	■ 7
Copper	ppm	■ 2	■ <1	■ 2	■ 7
Lead	ppm	■ 0	■ <1	■ <1	■ 0
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 1	■ 3	■ 2	■ <1
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 56	■ 90	■ 88	■ 25
Nickel	ppm	■ 0	■ <1	■ 0	■ 0
Titanium	ppm	0	1	■ 5	■ 14
Silver	ppm	■ 0	■ <1	■ 0	■ 0
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	<1	<1	<1	<1

ADDITIVES

Calcium	ppm	■ 1828	■ 1548	■ 1495	■ 1380
Magnesium	ppm	■ 365	■ 561	■ 632	■ 648
Zinc	ppm	■ 1072	■ 835	■ 792	■ 737
Phosphorus	ppm	■ 902	■ 724	■ 686	■ 641
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 89	■ 192	■ 236	■ 61

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: RELMIL
Unique No: 10634939
Signed: Wes Davis
Report Date: 08 Sep 2023



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GRAPHS

