



# CONSTRUCTION EQUIPMENT

SWO067659 VOLVO A30G 752677 - DIESEL ENGINE



**Sample No:** VCP435998  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWO067659



## SAMPLE INFORMATION

Sample Number	<b>VCP435998</b>	VCP433844	VCP424298	VCP368402
Sample Date	<b>16 Nov 2023</b>	18 Sep 2023	23 Jun 2023	18 Nov 2022
Machine Hours	<b>2403</b>	1919	2405	915
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	ABNORMAL	MARGINAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.2</b>	■ 12.5	■ 12.6	■ 12.6
Base Number (BN)	mg KOH/g	■ <b>9.9</b>	■ 9.8	■ 10.1	■ 10.3
Oxidation (PA)	%	<b>77</b>	76	81	86

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	■ <b>0.2</b>	■ 0.3	■ 0.3	■ 0.4
Nitration (PA)	%	<b>53</b>	53	58	75
Sulfation (PA)	%	<b>60</b>	60	64	68
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	■ <b>0.5</b>	<1.0	<1.0	<1.0
Silicon	ppm	■ <b>4</b>	■ 5	■ 6	■ 12
Sodium	ppm	■ <b>2</b>	■ 2	■ 3	■ <1
Potassium	ppm	■ <b>0</b>	■ <1	■ 2	■ 2

## Diagnosis

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. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.

## WEAR METALS

Iron	ppm	■ <b>5</b>	■ 8	■ 9	■ 23
Copper	ppm	■ <b>2</b>	■ 8	▲ 40	▲ 284
Lead	ppm	■ <b>0</b>	■ 0	■ 1	■ <1
Tin	ppm	■ <b>0</b>	■ <1	■ 1	■ 2
Aluminum	ppm	■ <b>&lt;1</b>	■ <1	■ 0	■ 2
Chromium	ppm	■ <b>0</b>	■ 0	■ <1	■ <1
Molybdenum	ppm	■ <b>43</b>	■ 42	■ 40	■ 52
Nickel	ppm	■ <b>0</b>	■ 0	■ <1	■ <1
Titanium	ppm	■ <b>&lt;1</b>	■ 0	<1	<1
Silver	ppm	■ <b>&lt;1</b>	■ 0	■ <1	■ 1
Manganese	ppm	■ <b>&lt;1</b>	■ <1	<1	2
Vanadium	ppm	■ <b>&lt;1</b>	0	0	<1

## ADDITIVES

Calcium	ppm	■ <b>1619</b>	■ 1840	■ 1563	■ 1871
Magnesium	ppm	■ <b>531</b>	■ 532	■ 447	■ 445
Zinc	ppm	■ <b>956</b>	■ 1161	■ 1006	■ 1168
Phosphorus	ppm	■ <b>824</b>	■ 951	■ 828	■ 975
Barium	ppm	■ <b>0</b>	■ 0	■ 1	■ 2
Boron	ppm	■ <b>54</b>	■ 49	■ 51	■ 37

**Depot:** SAIBIR  
**Unique No:** 10754006  
**Signed:** Angela Borella  
**Report Date:** 28 Nov 2023



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## VOLVO GRAPHS

