



# CONSTRUCTION EQUIPMENT

## VOLVO A60H 350187 - DIESEL ENGINE



**Sample No:** VCP410911  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP410911</b>	VCP428996	VCP357978	VCP395400
Sample Date	<b>11 Jan 2024</b>	06 Sep 2023	09 Mar 2023	28 Feb 2023
Machine Hours	<b>2513</b>	2021	1585	1556
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	ATTENTION	SEVERE

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	12.7	13.4	12.6
Base Number (BN)	mg KOH/g	<b>9.6</b>	10.3	11.3	11.6
Oxidation (PA)	%	<b>71</b>	75	75	79



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.2	0.1	0.3
Nitration (PA)	%	<b>53</b>	46	43	63
Sulfation (PA)	%	<b>57</b>	58	60	61
Glycol	%	<b>NEG</b>	NEG	0.0	0.10
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	6	4	5
Sodium	ppm	<b>1</b>	12	56	382
Potassium	ppm	<b>2</b>	<1	6	42



### WEAR METALS

Iron	ppm	<b>10</b>	8	3	12
Copper	ppm	<b>2</b>	1	3	17
Lead	ppm	<b>1</b>	0	0	0
Tin	ppm	<b>2</b>	<1	0	0
Aluminum	ppm	<b>2</b>	<1	<1	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>45</b>	42	42	44
Nickel	ppm	<b>6</b>	1	<1	4
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1449</b>	1862	1639	1734
Magnesium	ppm	<b>596</b>	532	495	520
Zinc	ppm	<b>1140</b>	1172	1108	1110
Phosphorus	ppm	<b>933</b>	964	898	921
Barium	ppm	<b>1</b>	0	0	0
Boron	ppm	<b>45</b>	63	64	24

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Exhaust valve wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** SAIBIR  
**Unique No:** 10844813  
**Signed:** Sean Felton  
**Report Date:** 25 Jan 2024



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## VOLVO GRAPHS

