



# CONSTRUCTION EQUIPMENT

## SWO-069193 VOLVO A60H A60H 340102 - DIESEL ENGINE



**Sample No:** VCP446737  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** SWO-069193



### SAMPLE INFORMATION

Sample Number	<b>VCP446737</b>	VCP431986	VCP412977	VCP419722
Sample Date	<b>01 Feb 2024</b>	28 Sep 2023	11 Jul 2023	30 Mar 2023
Machine Hours	<b>9767</b>	9302	8821	8292
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.2	13.3	13.08
Base Number (BN)	mg KOH/g	<b>9.2</b>	9.6	9.1	9.2
Oxidation (PA)	%	<b>78</b>	84	85	83

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 suitable for further service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.7	0.7	0.5
Nitration (PA)	%	<b>63</b>	68	75	73
Sulfation (PA)	%	<b>61</b>	65	65	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	8	7	6
Sodium	ppm	<b>0</b>	3	6	6
Potassium	ppm	<b>2</b>	0	<1	1



### WEAR METALS

Iron	ppm	<b>16</b>	13	13	11
Copper	ppm	<b>2</b>	<1	1	1
Lead	ppm	<b>0</b>	1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	3	5	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>54</b>	42	40	42
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1862</b>	1724	1689	1684
Magnesium	ppm	<b>662</b>	521	524	506
Zinc	ppm	<b>1327</b>	1141	1141	1110
Phosphorus	ppm	<b>964</b>	920	922	903
Barium	ppm	<b>5</b>	0	0	0
Boron	ppm	<b>57</b>	28	29	43

**Depot:** SAIBIR  
**Unique No:** 10863275  
**Signed:** Don Baldrige  
**Report Date:** 07 Feb 2024



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## VOLVO GRAPHS

