



# CONSTRUCTION EQUIPMENT

## VOLVO A60H 340039 - DIESEL ENGINE



**Sample No:** VCP441433  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP441433	VCP433643	VCP413326	VCP388773
Sample Date	18 Jan 2024	27 Sep 2023	20 Jun 2023	29 Nov 2022
Machine Hours	8521	8052	7542	7061
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	12.7	13.0
Base Number (BN)	mg KOH/g	9.6	9.1	10.3	11.1
Oxidation (PA)	%	77	74	82	86

### 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 acceptable for the time in service.



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.3	0.4
Nitration (PA)	%	60	56	63	67
Sulfation (PA)	%	59	58	62	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	5
Sodium	ppm	6	7	6	10
Potassium	ppm	1	4	2	1



### WEAR METALS

Iron	ppm	5	6	9	9
Copper	ppm	0	3	2	<1
Lead	ppm	<1	1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	4	1	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	38	32	46	42
Nickel	ppm	1	<1	0	1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	0	<1



### ADDITIVES

Calcium	ppm	1476	1118	1746	1635
Magnesium	ppm	476	350	548	510
Zinc	ppm	988	648	1180	1087
Phosphorus	ppm	855	602	955	890
Barium	ppm	<1	0	14	0
Boron	ppm	46	23	54	39

**Depot:** SAIBIR  
**Unique No:** 10847967  
**Signed:** Don Baldrige  
**Report Date:** 29 Jan 2024



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## VOLVO GRAPHS

