



# CONSTRUCTION EQUIPMENT

## 405980 CARR BROS VOLVO A40F 11213 - DIESEL ENGINE



**Sample No:** VCP382974  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 405980 CARR BROS



### SAMPLE INFORMATION

Sample Number	<b>VCP382974</b>	VCP388213	VCE159402	VCP114699
Sample Date	<b>01 Dec 2023</b>	08 Sep 2023	27 Jun 2012	08 May 2012
Machine Hours	<b>15931</b>	15586	1582	0
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.2	12.54	12.96
Base Number (BN)	mg KOH/g	<b>7.8</b>	8.6	---	---
Oxidation (PA)	%	<b>67</b>	73	52	12

### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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>0.3</b>	0	0.1	0
Nitration (PA)	%	<b>63</b>	72	50	17
Sulfation (PA)	%	<b>57</b>	65	50	30
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	9	5	5
Sodium	ppm	<b>&lt;1</b>	2	6	8
Potassium	ppm	<b>7</b>	8	6	0



### WEAR METALS

Iron	ppm	<b>6</b>	9	9	7
Copper	ppm	<b>0</b>	2	16	6
Lead	ppm	<b>0</b>	<1	0	2
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>1</b>	3	3	4
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	10	2	5
Nickel	ppm	<b>2</b>	3	4	1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>2126</b>	2200	2300	2289
Magnesium	ppm	<b>30</b>	96	24	21
Zinc	ppm	<b>1234</b>	1231	1167	1199
Phosphorus	ppm	<b>1055</b>	1024	1080	1029
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>167</b>	146	26	39

**Depot:** VOLVO2990  
**Unique No:** 10802553  
**Signed:** Wes Davis  
**Report Date:** 22 Dec 2023



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## VOLVO GRAPHS

