



# CONSTRUCTION EQUIPMENT

## A11722 VOLVO A40G DE-1622 (S/N 352023) - DIESEL ENGINE



**Sample No:** VCP441978  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** A11722



### SAMPLE INFORMATION

Sample Number	<b>VCP441978</b>	VCP422794	VCP367405	VCB0000004
Sample Date	<b>09 Jan 2024</b>	05 Jun 2023	29 Nov 2022	21 Oct 2021
Machine Hours	<b>3123</b>	2870	2635	2030
Oil Hours	<b>500</b>	250	0	250
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	ATTENTION

**DYER QUARRY**  
P.O. BOX 188, 1275 ROCK HOLLOW ROAD  
BIRDSBORO, PA  
US 19508  
Contact: MATT MCCLELLAND  
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T:  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.6	12.4	12.1
Base Number (BN)	mg KOH/g	<b>7.1</b>	10.8	11.4	---
Oxidation (PA)	%	<b>44</b>	81	82	75

### 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>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>58</b>	52	61	59
Sulfation (PA)	%	<b>45</b>	63	64	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	5	4
Sodium	ppm	<b>0</b>	3	2	<1
Potassium	ppm	<b>2</b>	0	0	<1



### WEAR METALS

Iron	ppm	<b>6</b>	5	6	9
Copper	ppm	<b>1</b>	4	<1	4
Lead	ppm	<b>0</b>	0	1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	<1	1	0
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>12</b>	40	46	57
Nickel	ppm	<b>&lt;1</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1821</b>	1704	1632	1827
Magnesium	ppm	<b>127</b>	473	520	535
Zinc	ppm	<b>942</b>	1035	1146	1132
Phosphorus	ppm	<b>1004</b>	897	909	1002
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>13</b>	68	58	67

**Depot:** DYEBIR  
**Unique No:** 10821655  
**Signed:** Wes Davis  
**Report Date:** 10 Jan 2024



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## VOLVO GRAPHS

