

## CONSTRUCTION EQUIPMENT VOLVO A40G 352412 - DIESEL ENGINE



Sample No: VCP434476

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

	INFORMATION				
Sample Number		VCP434476	VCP332031	VCP304686	VCP296176
Sample Date		01 Nov 2023	24 Nov 2021	01 Mar 2021	07 Dec 2020
Machine Hours		4381	2279	1361	1001
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ATTENTION	ABNORMAL	NORMAL	NORMAL
OIL COND	ITION				
Visc @ 100°C	cSt	<b>12.4</b>	<b>12.7</b>	<b>12.9</b>	<b>12.9</b>
Base Number (BN)	mg KOH/g	<b>4.8</b>	7.1		
Oxidation (PA)	%	102	92	83	86
CONTAM	INATION				
Soot %	%	■ 0.5	■ 0.3	■ 0.2	■0.2
Nitration (PA)	%	110	98	64	76
Sulfation (PA)	%	76	67	65	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<b>1.4</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>■</b> 9	<b>5</b>	<b>5</b>	■8
Sodium	ppm	<u> </u>	<b></b>	<b>2</b>	■3
Potassium	ppm	<b>■</b> 5	<b></b>	□ 0	<b>6</b>
VOLVO					
<b>WEAR M</b>	ETALS				
Iron	ppm	<b>2</b> 4	<b>1</b> 1	<b>5</b>	<b>8</b>
Copper	ppm	<u>▲</u> 37	<b>2</b> 00	2	<u></u> 4
Lead	ppm	<b>■</b> 3	<b>1</b>	<u> </u>	<b>3</b>
Tin	ppm	<b>2</b>	<b>2</b>	<b>1</b>	<b>-</b> <1
Aluminum	ppm	<b>■</b> 3	<b>2</b>	<b>1</b>	<b>2</b>
Chromium	ppm	<b>■</b> <1	<b>-</b> <1	<b>-</b> <1	<b>-</b> <1
Molybdenum	ppm	<b>46</b>	<b>4</b> 4	■40	■38
Nickel	ppm	<b>6</b>	<b>3</b>	<b>2</b>	<b>3</b>
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<b>■</b> 0	<1	<1	0
Manganese	ppm	<b>1</b>	<b>-</b> <1	< 1	<b></b>
Vanadium	ppm	0	0	0	0

**1851** 

**539** 

**1128** 

**1015** 

**0** 

**1800** 

**512** 

**11115** 

984

**0** 

**41** 

**1774** 

**515** 

**1060** 

913

□ 0□ 23



## **ALTA EQUIPMENT COMPANY**

5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL US 33905 Contact: TODD LARK tlark@altaequipfl.com

T:

F: (239)481-3302

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other component wear rates are normal. Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0090Unique No:10737063Signed:Doug BogartReport Date:16 Nov 2023

**1644** 

**492** 

**1040** 

■834

**0** 

■8

**ADDITIVES** 

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus



## **CONSTRUCTION EQUIPMENT**





