



# CONSTRUCTION EQUIPMENT

## 23784 VOLVO A30G 740147 - DIESEL ENGINE



**Sample No:** VCP424779  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 23784



### SAMPLE INFORMATION

Sample Number	<b>VCP424779</b>	VC559788	VC414616	---
Sample Date	<b>24 Jul 2023</b>	11 May 2016	15 Mar 2016	---
Machine Hours	<b>13688</b>	1483	1198	---
Oil Hours	<b>1000</b>	0	0	---
Oil Changed	<b>Changed</b>	N/A	N/A	---
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	---

**218 - ASCENDUM MACHINERY INC - N. CHARLESTON**  
 7235 CROSS COUNTRY RD.  
 NORTH CHARLESTON, SC  
 US 29418  
 Contact: MATT MITCHAM  
 matt.mitcam@ascendummachinery.com  
 T:  
 F: (843)414-1129



### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.1</b>	■ 13.00	■ 14.00	---
Base Number (BN)	mg KOH/g	<b>■ 8.0</b>	---	---	---
Oxidation (PA)	%	<b>61</b>	■ 52	■ 56	---



### CONTAMINATION

Soot %	%	<b>■ 0.4</b>	■ 0	■ 0.1	---
Nitration (PA)	%	<b>69</b>	■ 50	■ 50	---
Sulfation (PA)	%	<b>56</b>	■ 42	■ 50	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>■ 1.7</b>	<1.0	<1.0	---
Silicon	ppm	<b>■ 7</b>	■ 5	■ 3	---
Sodium	ppm	<b>■ 2</b>	■ 6	■ 13	---
Potassium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	---

### Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. No other contaminants were detected in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### WEAR METALS

Iron	ppm	<b>■ 9</b>	■ 5	■ 5	---
Copper	ppm	<b>■ &lt;1</b>	■ 2	■ 8	---
Lead	ppm	<b>■ &lt;1</b>	■ 0	■ <1	---
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	---
Aluminum	ppm	<b>■ 2</b>	■ 2	■ 2	---
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	---
Molybdenum	ppm	<b>■ 61</b>	■ 41	■ <1	---
Nickel	ppm	<b>■ 0</b>	■ <1	■ <1	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	---
Manganese	ppm	<b>■ &lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>■ 1075</b>	■ 1410	■ 2312	---
Magnesium	ppm	<b>■ 1049</b>	■ 673	■ 10	---
Zinc	ppm	<b>■ 1266</b>	■ 992	■ 1169	---
Phosphorus	ppm	<b>■ 1030</b>	■ 891	■ 869	---
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 76</b>	■ 42	■ 72	---

**Depot:** VOLVO3387  
**Unique No:** 10577362  
**Signed:** Sean Felton  
**Report Date:** 01 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

