



# CONSTRUCTION EQUIPMENT

374467 VOLVO A40G 353347 - DIESEL ENGINE



**Sample No:** VCP394844  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 374467



### Strongco Equipment

5179 Fountain St N.  
 Breslau, ON  
 CA N0B 1M0  
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## SAMPLE INFORMATION

Sample Number	VCP394844	---	---	---
Sample Date	11 Aug 2023	---	---	---
Machine Hours	1014	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



## OIL CONDITION

Visc @ 100°C	cSt	▲ 10.9	---	---	---
Oxidation (PA)	%	73	---	---	---



## CONTAMINATION

Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	93	---	---	---
Sulfation (PA)	%	73	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.9	---	---	---
Silicon	ppm	24	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 4	---	---	---



## WEAR METALS

Iron	ppm	■ 34	---	---	---
Copper	ppm	136	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 87	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	■ 2223	---	---	---
Magnesium	ppm	50	---	---	---
Zinc	ppm	■ 1143	---	---	---
Phosphorus	ppm	■ 991	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 11	---	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

**Depot:** CASKIT  
**Unique No:** 5629740  
**Signed:** Kevin Marson  
**Report Date:** 21 Aug 2023



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## GRAPHS

