



# CONSTRUCTION EQUIPMENT

24467 VOLVO A30G 753393 - DIESEL ENGINE



**Sample No:** VCP429024  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 24467



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

## SAMPLE INFORMATION

Sample Number	VCP429024	---	---	---
Sample Date	21 Nov 2023	---	---	---
Machine Hours	590	---	---	---
Oil Hours	590	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

## OIL CONDITION

Visc @ 100°C	cSt	▲ 10.9	---	---	---
Base Number (BN)	mg KOH/g	■ 5.6	---	---	---
Oxidation (PA)	%	59	---	---	---

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	80	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.7	---	---	---
Silicon	ppm	▲ 75	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 2	---	---	---

## WEAR METALS

Iron	ppm	■ 17	---	---	---
Copper	ppm	▲ 348	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 81	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 1	---	---	---
Manganese	ppm	■ 5	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	■ 2035	---	---	---
Magnesium	ppm	45	---	---	---
Zinc	ppm	■ 1197	---	---	---
Phosphorus	ppm	■ 928	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 31	---	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO3387  
**Unique No:** 10762488  
**Signed:** Don Baldrige  
**Report Date:** 29 Nov 2023



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## GRAPHS

