



# CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 1145-CSA VOLVO A30G ORT-23 (S/N A30GV742551) - DIESEL ENGINE



**Sample No:** VCP370365  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 1145-CSA



## SAMPLE INFORMATION

Sample Number	<b>VCP370365</b>	VCP0002888	VCP343375	VCP304744
Sample Date	<b>31 May 2023</b>	24 Jun 2022	26 Oct 2021	15 Apr 2021
Machine Hours	<b>2926</b>	2015	1466	992
Oil Hours	<b>0</b>	549	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

**PEDULLA EXCAVATING & PAVING**  
1275 SHINN FARM RD  
MOORESVILLE, NC  
US 28115  
Contact: Service Manager

## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.7</b>	▲ 11.1	▲ 11.1	▲ 11.0
Base Number (BN)	mg KOH/g	<b>■ 8.8</b>	■ 9.6	---	---
Oxidation (PA)	%	<b>55</b>	78	76	82

T:  
F:

## Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>■ 0.2</b>	■ 0.3	■ 0.3	■ 0.3
Nitration (PA)	%	<b>56</b>	65	64	63
Sulfation (PA)	%	<b>50</b>	61	61	67
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>▲ 4.8</b>	▲ 7.1	▲ 5.8	▲ 4.7
Silicon	ppm	<b>■ 4</b>	■ 5	■ 6	■ 8
Sodium	ppm	<b>■ 2</b>	■ 1	■ 2	■ 2
Potassium	ppm	<b>■ 2</b>	■ 0	■ 0	■ <1

## WEAR METALS

Iron	ppm	<b>■ 4</b>	■ 8	■ 9	■ 10
Copper	ppm	<b>■ 0</b>	■ 2	■ 10	▲ 73
Lead	ppm	<b>■ 0</b>	■ <1	■ 1	■ <1
Tin	ppm	<b>■ &lt;1</b>	■ 1	■ 1	■ 1
Aluminum	ppm	<b>■ 2</b>	■ 2	■ 1	■ 0
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 58</b>	■ 40	■ 48	■ 36
Nickel	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ 0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>■ 0</b>	■ 0	0	0
Manganese	ppm	<b>■ &lt;1</b>	■ <1	<1	1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1084</b>	■ 1622	■ 1546	■ 1645
Magnesium	ppm	<b>964</b>	■ 468	■ 495	■ 404
Zinc	ppm	<b>■ 1297</b>	■ 1038	■ 1011	■ 1016
Phosphorus	ppm	<b>■ 1060</b>	■ 840	■ 864	■ 868
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 4</b>	■ 53	■ 39	■ 41

**Depot:** PEDMOOVC  
**Unique No:** 10497197  
**Signed:** Wes Davis  
**Report Date:** 05 Jun 2023



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## GRAPHS

