



# CONSTRUCTION EQUIPMENT

RSO036752 VOLVO A30G 752 104 - DIESEL ENGINE



**Sample No:** VCP428645  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** RSO036752



## SAMPLE INFORMATION

Sample Number	<b>VCP428645</b>	VCP358372	VCP320070	VCP317524
Sample Date	<b>31 Jan 2024</b>	05 May 2022	24 Aug 2021	28 Jul 2021
Machine Hours	<b>4113</b>	1965	1027	968
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	MARGINAL	ABNORMAL

### COWIN EQUIPMENT COMPANY

7950 PITTMAN AVE  
 PENSACOLA, FL  
 US 32534

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.9	13.1	10.7
Base Number (BN)	mg KOH/g	<b>6.0</b>	11.4	---	---
Oxidation (PA)	%	<b>91</b>	84	52	73



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.7</b>	0.3	0.1	0.4
Nitration (PA)	%	<b>98</b>	63	51	82
Sulfation (PA)	%	<b>69</b>	64	52	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.4
Silicon	ppm	<b>8</b>	3	9	42
Sodium	ppm	<b>0</b>	1	2	3
Potassium	ppm	<b>2</b>	0	0	6



## WEAR METALS

Iron	ppm	<b>41</b>	4	6	32
Copper	ppm	<b>9</b>	7	41	268
Lead	ppm	<b>0</b>	<1	1	2
Tin	ppm	<b>&lt;1</b>	<1	0	4
Aluminum	ppm	<b>2</b>	<1	<1	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>52</b>	35	22	62
Nickel	ppm	<b>2</b>	1	2	7
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	1
Manganese	ppm	<b>&lt;1</b>	<1	<1	5
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1588</b>	1673	1467	1192
Magnesium	ppm	<b>634</b>	533	766	941
Zinc	ppm	<b>1154</b>	1012	877	1146
Phosphorus	ppm	<b>822</b>	918	833	977
Barium	ppm	<b>5</b>	0	0	0
Boron	ppm	<b>6</b>	63	83	6

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** VOLVO8247  
**Unique No:** 10863268  
**Signed:** Wes Davis  
**Report Date:** 06 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

