

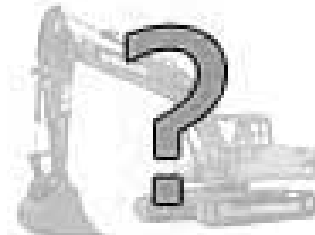


# CONSTRUCTION EQUIPMENT

SPM620576 OMNISOURCE SENNEBOGEN 825 825.0.2100 - DIESEL ENGINE



**Sample No:** VCP431281  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM620576 OMNISOURCE



## SAMPLE INFORMATION

Sample Number	<b>VCP431281</b>	VCP373256	VCP373726	VCP356578
Sample Date	<b>31 Oct 2023</b>	10 Feb 2023	10 Aug 2022	04 Mar 2022
Machine Hours	<b>8585</b>	8011	7501	6960
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA CONSTRUCTION EQUIPMENT LLC**  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.9</b>	13.9	14.3	13.9
Base Number (BN)	mg KOH/g	<b>8.2</b>	9.2	9.9	9.2
Oxidation (PA)	%	<b>81</b>	73	93	85

## CONTAMINATION

Soot %	%	<b>1.3</b>	0.9	1	1
Nitration (PA)	%	<b>93</b>	83	98	93
Sulfation (PA)	%	<b>66</b>	62	71	68
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	3	4	4
Sodium	ppm	<b>0</b>	1	0	0
Potassium	ppm	<b>2</b>	0	2	2

## 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 acceptable for the time in service.

## WEAR METALS

Iron	ppm	<b>25</b>	19	21	24
Copper	ppm	<b>2</b>	<1	1	1
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	2	4	4
Chromium	ppm	<b>2</b>	1	<1	1
Molybdenum	ppm	<b>67</b>	66	56	50
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1128</b>	1182	1497	1426
Magnesium	ppm	<b>985</b>	978	655	774
Zinc	ppm	<b>1264</b>	1316	1185	1136
Phosphorus	ppm	<b>1125</b>	1044	976	930
Barium	ppm	<b>5</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	2	27	31

**Depot:** VOLVO5023  
**Unique No:** 10728563  
**Signed:** Sean Felton  
**Report Date:** 08 Nov 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

