



# CONSTRUCTION EQUIPMENT

## SWA60052-10 ALTER PE SENNEBOGEN 835 835.0.2949 - DIESEL ENGINE



**Sample No:** VCP438902  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWA60052-10 ALTER PE



### SAMPLE INFORMATION

Sample Number	<b>VCP438902</b>	VCP434632	VCP396390	VCP363692
Sample Date	<b>17 May 2024</b>	01 Mar 2024	10 Oct 2023	01 Nov 2022
Machine Hours	<b>5900</b>	5345	4362	1872
Oil Hours	<b>500</b>	1000	500	500
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	SEVERE	NORMAL	NORMAL

### ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE  
 BLOOMINGTON, IL  
 US 61705

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	10.7	13.6	13.1
Base Number (BN)	mg KOH/g	<b>8.6</b>	4.1	5.7	10.9
Oxidation (PA)	%	<b>82</b>	141	107	65

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.2	0.4	0.1
Nitration (PA)	%	<b>63</b>	88	99	63
Sulfation (PA)	%	<b>62</b>	78	73	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>1.6</b>	9.7	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	6	3
Sodium	ppm	<b>&lt;1</b>	<1	1	3
Potassium	ppm	<b>4</b>	6	22	8



### WEAR METALS

Iron	ppm	<b>7</b>	26	73	5
Copper	ppm	<b>&lt;1</b>	2	2	1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	3	8	2
Chromium	ppm	<b>&lt;1</b>	1	3	<1
Molybdenum	ppm	<b>56</b>	58	63	58
Nickel	ppm	<b>&lt;1</b>	<1	<1	2
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>&lt;1</b>	<1	0	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1031</b>	1006	1227	1136
Magnesium	ppm	<b>922</b>	859	909	942
Zinc	ppm	<b>1154</b>	1095	1343	1270
Phosphorus	ppm	<b>952</b>	919	1062	1028
Barium	ppm	<b>0</b>	0	1	0
Boron	ppm	<b>0</b>	0	6	4

**Depot:** VOLVO5054  
**Unique No:** 11045511  
**Signed:** Sean Felton  
**Report Date:** 28 May 2024



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## GRAPHS

