



# CONSTRUCTION EQUIPMENT

SPM702170 ALTER SB SENNEBOGEN 840E 840.0.2195 - DIESEL ENGINE



**Sample No:** VCP367136  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM702170 ALTER SB



## SAMPLE INFORMATION

Sample Number	<b>VCP367136</b>	VCP433804	VCP433391	VCP424693
Sample Date	<b>16 Apr 2024</b>	02 Feb 2024	17 Nov 2023	19 Jul 2023
Machine Hours	<b>11148</b>	10557	10000	9498
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	MARGINAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.1	13.7	13.5
Base Number (BN)	mg KOH/g	<b>8.7</b>	6.2	8.5	6.7
Oxidation (PA)	%	<b>72</b>	74	69	70

## 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.

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>72</b>	68	66	70
Sulfation (PA)	%	<b>55</b>	60	55	54
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	▲ 2.3	<1.0	<1.0
Silicon	ppm	<b>2</b>	2	9	2
Sodium	ppm	<b>1</b>	1	4	0
Potassium	ppm	<b>0</b>	0	<1	3

## WEAR METALS

Iron	ppm	<b>5</b>	4	30	7
Copper	ppm	<b>&lt;1</b>	<1	12	1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	1	8	1
Chromium	ppm	<b>0</b>	<1	1	<1
Molybdenum	ppm	<b>60</b>	56	53	60
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1129</b>	1048	1736	1061
Magnesium	ppm	<b>1022</b>	966	617	903
Zinc	ppm	<b>1312</b>	1136	1339	1196
Phosphorus	ppm	<b>1047</b>	1003	1067	971
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	17	0

**Depot:** VOLVO8885  
**Unique No:** 11003242  
**Signed:** Wes Davis  
**Report Date:** 29 Apr 2024



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## VOLVO GRAPHS

