



# CONSTRUCTION EQUIPMENT

## SPM634011 ALTER ROCK SENNEBOGEN 840ME 840.0.2170 - DIESEL ENGINE



**Sample No:** VCP433261  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM634011 ALTER ROCK



### SAMPLE INFORMATION

Sample Number	<b>VCP433261</b>	VCP399618	VCP387220	VCP344703
Sample Date	<b>16 Nov 2023</b>	14 Aug 2023	03 Apr 2023	08 Oct 2021
Machine Hours	<b>9010</b>	8508	7779	4315
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	MARGINAL	NORMAL

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

Visc @ 100°C	cSt	<b>13.6</b>	13.7	12.3	13.2
Base Number (BN)	mg KOH/g	<b>8.5</b>	7.8	8.4	---
Oxidation (PA)	%	<b>71</b>	78	90	94

### 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>	0.2	0.1	0.2
Nitration (PA)	%	<b>71</b>	82	72	74
Sulfation (PA)	%	<b>56</b>	58	61	67
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<b>2.9</b>	<1.0
Silicon	ppm	<b>4</b>	3	6	3
Sodium	ppm	<b>6</b>	2	<1	3
Potassium	ppm	<b>3</b>	2	2	1



### WEAR METALS

Iron	ppm	<b>14</b>	9	7	6
Copper	ppm	<b>3</b>	1	<1	0
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>6</b>	2	0	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>65</b>	62	41	40
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1172</b>	1185	1672	1719
Magnesium	ppm	<b>870</b>	1026	489	496
Zinc	ppm	<b>1223</b>	1289	1126	1117
Phosphorus	ppm	<b>1048</b>	1024	896	900
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>14</b>	2	53	26

**Depot:** VOLVO5055  
**Unique No:** 10777247  
**Signed:** Wes Davis  
**Report Date:** 08 Dec 2023



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## GRAPHS

