



# CONSTRUCTION EQUIPMENT

## SPM593006 SENNEBOGEN 840ME 840.0.2170 - DIESEL ENGINE



**Sample No:** VCP399618  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM593006



### SAMPLE INFORMATION

Sample Number	<b>VCP399618</b>	VCP387220	VCP344703	VCP323270
Sample Date	<b>14 Aug 2023</b>	03 Apr 2023	08 Oct 2021	15 Jul 2021
Machine Hours	<b>8508</b>	7779	4315	3424
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	MARGINAL	NORMAL	NORMAL

### ALTA CONSTRUCTION EQUIPMENT

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.7</b>	12.3	13.2	13.1
Base Number (BN)	mg KOH/g	<b>7.8</b>	8.4	---	---
Oxidation (PA)	%	<b>78</b>	90	94	90

### 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

Soot %	%	<b>0.2</b>	0.1	0.2	0.2
Nitration (PA)	%	<b>82</b>	72	74	82
Sulfation (PA)	%	<b>58</b>	61	67	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	▲ 2.9	<1.0	<1.0
Silicon	ppm	<b>3</b>	6	3	4
Sodium	ppm	<b>2</b>	<1	3	2
Potassium	ppm	<b>2</b>	2	1	2



### WEAR METALS

Iron	ppm	<b>9</b>	7	6	10
Copper	ppm	<b>1</b>	<1	0	<1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>2</b>	0	2	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>62</b>	41	40	45
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1185</b>	1672	1719	1793
Magnesium	ppm	<b>1026</b>	489	496	510
Zinc	ppm	<b>1289</b>	1126	1117	1261
Phosphorus	ppm	<b>1024</b>	896	900	1035
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>2</b>	53	26	33

**Depot:** VOLVO5055  
**Unique No:** 10608536  
**Signed:** Wes Davis  
**Report Date:** 21 Aug 2023



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## GRAPHS

