



# CONSTRUCTION EQUIPMENT

SPM687469 BL DUKE SENNOBOGEN 835M 835.0.2625 - DIESEL ENGINE



**Sample No:** VCP436309  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM687469 BL DUKE



## SAMPLE INFORMATION

Sample Number	<b>VCP436309</b>	VCP425313	VCP415212	VCP380840
Sample Date	<b>15 Mar 2024</b>	18 Oct 2023	12 Sep 2023	17 Feb 2023
Machine Hours	<b>5783</b>	4991	4620	3163
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	MARGINAL	ABNORMAL	ABNORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.3	11.7	12.2
Base Number (BN)	mg KOH/g	<b>9.0</b>	7.9	5.2	9.2
Oxidation (PA)	%	<b>65</b>	88	128	78

## 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	0.2	0.3
Nitration (PA)	%	<b>58</b>	63	91	68
Sulfation (PA)	%	<b>54</b>	60	75	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	4.2	7.9	6.3
Silicon	ppm	<b>8</b>	3	3	10
Sodium	ppm	<b>0</b>	2	3	0
Potassium	ppm	<b>3</b>	4	10	2



## WEAR METALS

Iron	ppm	<b>5</b>	4	14	13
Copper	ppm	<b>&lt;1</b>	<1	<1	208
Lead	ppm	<b>3</b>	0	0	1
Tin	ppm	<b>2</b>	0	<1	2
Aluminum	ppm	<b>5</b>	3	3	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>59</b>	54	54	47
Nickel	ppm	<b>&lt;1</b>	0	<1	3
Titanium	ppm	<b>1</b>	<1	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>1135</b>	939	1036	1707
Magnesium	ppm	<b>962</b>	851	881	425
Zinc	ppm	<b>1224</b>	1126	1149	1065
Phosphorus	ppm	<b>1082</b>	934	896	908
Barium	ppm	<b>1</b>	7	0	0
Boron	ppm	<b>2</b>	0	4	43

**Depot:** VOLVO8885  
**Unique No:** 10941001  
**Signed:** Wes Davis  
**Report Date:** 26 Mar 2024



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## VOLVO GRAPHS

