



# CONSTRUCTION EQUIPMENT

SPM605741 BL DUKE SENNEBOGEN 835ME 835.0.2813 - DIESEL ENGINE



**Sample No:** VCP415219  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM605741 BL DUKE



## SAMPLE INFORMATION

Sample Number	<b>VCP415219</b>	VCP404349	VCP400454	VCP365795
Sample Date	<b>12 Sep 2023</b>	01 Mar 2023	04 Jan 2023	19 Oct 2022
Machine Hours	<b>5520</b>	4525	4103	3722
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>MARGINAL</b>	ABNORMAL	ABNORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	12.1	12.3	13.1
Base Number (BN)	mg KOH/g	<b>6.8</b>	7.8	8.5	6
Oxidation (PA)	%	<b>102</b>	86	85	131

## CONTAMINATION

Soot %	%	<b>0.2</b>	0.3	0.2	0.3
Nitration (PA)	%	<b>91</b>	82	81	110
Sulfation (PA)	%	<b>66</b>	61	60	80
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>2.3</b>	6.4	4.6	<1.0
Silicon	ppm	<b>4</b>	2	2	6
Sodium	ppm	<b>6</b>	0	0	2
Potassium	ppm	<b>9</b>	2	0	13

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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.

## WEAR METALS

Iron	ppm	<b>12</b>	19	5	22
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	2	<1	6
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>65</b>	53	57	64
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1

## ADDITIVES

Calcium	ppm	<b>1132</b>	964	990	1096
Magnesium	ppm	<b>1034</b>	829	888	956
Zinc	ppm	<b>1317</b>	1108	1112	1239
Phosphorus	ppm	<b>1028</b>	898	918	940
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>5</b>	<1	0	2

**Depot:** VOLVO8885  
**Unique No:** 10658032  
**Signed:** Don Baldrige  
**Report Date:** 22 Sep 2023



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## VOLVO GRAPHS

