



# CONSTRUCTION EQUIPMENT

SPM593279 SENNEBOGEN 835ME 835.0.3070 - DIESEL ENGINE



**Sample No:** VCP411398  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM593279



## SAMPLE INFORMATION

Sample Number	<b>VCP411398</b>	VCP399523	VCP402111	---
Sample Date	<b>11 Aug 2023</b>	24 May 2023	20 Mar 2023	---
Machine Hours	<b>2080</b>	1562	1076	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.2	▲ 12.2	---
Base Number (BN)	mg KOH/g	<b>8.9</b>	8.9	7.9	---
Oxidation (PA)	%	<b>67</b>	68	69	---

## CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.1	---
Nitration (PA)	%	<b>69</b>	68	70	---
Sulfation (PA)	%	<b>55</b>	55	50	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	▲ 2.9	---
Silicon	ppm	<b>3</b>	4	4	---
Sodium	ppm	<b>1</b>	<1	0	---
Potassium	ppm	<b>15</b>	8	13	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

## WEAR METALS

Iron	ppm	<b>7</b>	6	12	---
Copper	ppm	<b>1</b>	3	3	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>&lt;1</b>	0	<1	---
Aluminum	ppm	<b>5</b>	5	3	---
Chromium	ppm	<b>&lt;1</b>	0	<1	---
Molybdenum	ppm	<b>60</b>	59	64	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	0	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1074</b>	1086	1158	---
Magnesium	ppm	<b>996</b>	947	911	---
Zinc	ppm	<b>1245</b>	1239	1286	---
Phosphorus	ppm	<b>1004</b>	986	1028	---
Barium	ppm	<b>0</b>	0	2	---
Boron	ppm	<b>0</b>	4	4	---

**Depot:** BELBOU  
**Unique No:** 10615926  
**Signed:** Wes Davis  
**Report Date:** 22 Aug 2023



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## GRAPHS

