



# CONSTRUCTION EQUIPMENT

SPM593879 SENNEBOGEN 835 835.0.2740 - DIESEL ENGINE



**Sample No:** VCP423490  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM593879



## SAMPLE INFORMATION

Sample Number	<b>VCP423490</b>	VCP373589	VCP325144	VCP306758
Sample Date	<b>11 Aug 2023</b>	11 May 2023	16 Jul 2021	02 Mar 2021
Machine Hours	<b>6443</b>	5949	1956	1108
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	MARGINAL	ABNORMAL	SEVERE

**ALTA CONSTRUCTION EQUIPMENT**  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	12.1	14.0	▲ 11.0
Base Number (BN)	mg KOH/g	<b>8.6</b>	9.5	---	---
Oxidation (PA)	%	<b>64</b>	96	112	96

## CONTAMINATION

Water	%	---	---	0.107	---
Soot %	%	<b>0.3</b>	0.2	0.3	0.2
Nitration (PA)	%	<b>65</b>	78	113	91
Sulfation (PA)	%	<b>54</b>	68	72	67
Glycol	%	<b>NEG</b>	NEG	0.0	NEG
Fuel	%	<b>&lt;1.0</b>	▲ 4.4	1.0	11.7
Silicon	ppm	<b>3</b>	3	9	2
Sodium	ppm	<b>1</b>	3	3	<1
Potassium	ppm	<b>7</b>	3	53	23

## 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.

## WEAR METALS

Iron	ppm	<b>10</b>	9	26	17
Copper	ppm	<b>&lt;1</b>	<1	2	2
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	<1	▲ 26	6
Chromium	ppm	<b>&lt;1</b>	0	1	<1
Molybdenum	ppm	<b>59</b>	38	82	112
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	<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>1122</b>	1689	1791	1240
Magnesium	ppm	<b>977</b>	483	596	455
Zinc	ppm	<b>1241</b>	1096	1056	746
Phosphorus	ppm	<b>994</b>	846	775	619
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>&lt;1</b>	49	82	266

**Depot:** VOLVO5055  
**Unique No:** 10608535  
**Signed:** Wes Davis  
**Report Date:** 21 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

