

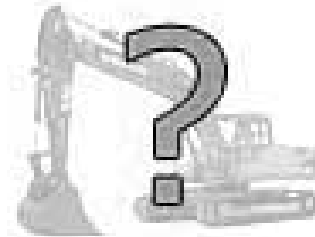


# CONSTRUCTION EQUIPMENT

## SENNEBOGEN 825 825.0.3440 - DIESEL ENGINE



**Sample No:** VCP327413  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP327413</b>	VCP441414	VCP380662	VCP380664
Sample Date	<b>16 Dec 2023</b>	15 Nov 2023	21 Jun 2023	01 Jun 2023
Machine Hours	<b>10997</b>	10556	8426	8146
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>MARGINAL</b>	ABNORMAL	MARGINAL	NORMAL

### UNITED SCRAP

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### OIL CONDITION

Visc @ 100°C	cSt	<span style="color: green;">■</span> <b>12.2</b>	<span style="color: orange;">▲</span> 11.8	<span style="color: green;">■</span> 12.1	<span style="color: green;">■</span> 12.9
Base Number (BN)	mg KOH/g	<span style="color: green;">■</span> <b>8.6</b>	<span style="color: green;">■</span> 6.9	<span style="color: green;">■</span> 7.1	<span style="color: green;">■</span> 7.2
Oxidation (PA)	%	<b>66</b>	91	83	72

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. 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 suitable for further service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<span style="color: green;">■</span> <b>0.2</b>	<span style="color: green;">■</span> 0.2	<span style="color: green;">■</span> 0.1	<span style="color: green;">■</span> 0.1
Nitration (PA)	%	<b>63</b>	73	68	68
Sulfation (PA)	%	<b>55</b>	63	60	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<span style="color: orange;">▲</span> <b>4.6</b>	<span style="color: orange;">▲</span> 5.7	<span style="color: orange;">▲</span> 4.2	<1.0
Silicon	ppm	<span style="color: green;">■</span> <b>3</b>	<span style="color: green;">■</span> 4	<span style="color: green;">■</span> 5	<span style="color: green;">■</span> 4
Sodium	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 2
Potassium	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> <1



### WEAR METALS

Iron	ppm	<span style="color: green;">■</span> <b>7</b>	<span style="color: green;">■</span> 5	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 4
Copper	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> <1
Lead	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0
Tin	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0
Aluminum	ppm	<span style="color: green;">■</span> <b>1</b>	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> <1
Chromium	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> <1
Molybdenum	ppm	<span style="color: green;">■</span> <b>62</b>	<span style="color: green;">■</span> 64	<span style="color: green;">■</span> 67	<span style="color: green;">■</span> 76
Nickel	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> <1
Titanium	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0
Silver	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0
Manganese	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<span style="color: green;">■</span> <b>1119</b>	<span style="color: green;">■</span> 1626	<span style="color: green;">■</span> 1893	<span style="color: green;">■</span> 2053
Magnesium	ppm	<span style="color: green;">■</span> <b>873</b>	<span style="color: green;">■</span> 468	<span style="color: green;">■</span> 219	<span style="color: green;">■</span> 133
Zinc	ppm	<span style="color: green;">■</span> <b>1251</b>	<span style="color: green;">■</span> 1216	<span style="color: green;">■</span> 1163	<span style="color: green;">■</span> 1169
Phosphorus	ppm	<span style="color: green;">■</span> <b>1033</b>	<span style="color: green;">■</span> 893	<span style="color: green;">■</span> 1012	<span style="color: green;">■</span> 979
Barium	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0
Boron	ppm	<span style="color: green;">■</span> <b>10</b>	<span style="color: green;">■</span> 33	<span style="color: green;">■</span> 55	<span style="color: green;">■</span> 60

**Depot:** UNICICIL  
**Unique No:** 10802543  
**Signed:** Wes Davis  
**Report Date:** 26 Dec 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

