

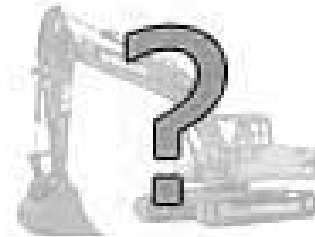


# CONSTRUCTION EQUIPMENT

## SENNEBOGEN 825 825.0.3440 - DIESEL ENGINE



**Sample No:** VCP441414  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP441414</b>	VCP380664	VCP327353	VCP370171
Sample Date	<b>15 Nov 2023</b>	01 Jun 2023	11 May 2023	06 Mar 2023
Machine Hours	<b>10556</b>	8146	9927	7035
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	MARGINAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.8</b>	■ 12.9	■ 12.7	<b>▲ 12.3</b>
Base Number (BN)	mg KOH/g	<b>■ 6.9</b>	■ 7.2	■ 7.6	■ 8.9
Oxidation (PA)	%	<b>91</b>	72	78	74

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>■ 0.2</b>	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	<b>73</b>	68	67	64
Sulfation (PA)	%	<b>63</b>	58	60	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>▲ 5.7</b>	<1.0	<1.0	<b>▲ 3.4</b>
Silicon	ppm	<b>■ 4</b>	■ 4	■ 3	■ 4
Sodium	ppm	<b>■ 2</b>	■ 2	■ 2	■ 2
Potassium	ppm	<b>■ 0</b>	■ <1	■ 0	■ 1

### WEAR METALS

Iron	ppm	<b>■ 5</b>	■ 4	■ 6	■ 8
Copper	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ <1
Lead	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Tin	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0
Aluminum	ppm	<b>■ 2</b>	■ <1	■ 2	■ 2
Chromium	ppm	<b>■ 0</b>	■ <1	■ 0	■ <1
Molybdenum	ppm	<b>■ 64</b>	■ 76	■ 26	■ 35
Nickel	ppm	<b>■ 0</b>	■ <1	■ 0	■ <1
Titanium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Manganese	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ <1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>■ 1626</b>	■ 2053	■ 1935	■ 1754
Magnesium	ppm	<b>■ 468</b>	■ 133	■ 335	■ 371
Zinc	ppm	<b>■ 1216</b>	■ 1169	■ 1101	■ 1069
Phosphorus	ppm	<b>■ 893</b>	■ 979	■ 866	■ 862
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 33</b>	■ 60	■ 30	■ 47

**Depot:** UNICICIL  
**Unique No:** 10755185  
**Signed:** Wes Davis  
**Report Date:** 28 Nov 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

