

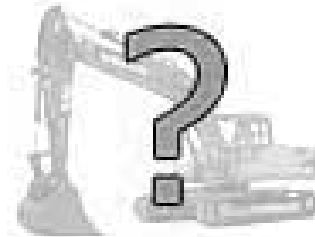


# CONSTRUCTION EQUIPMENT

## SENNEBOGEN 825 825.0.3324 - DIESEL ENGINE



**Sample No:** VCP327357  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP327357</b>	VCP370237	VCP367704	VCP336737
Sample Date	<b>20 Jun 2023</b>	03 May 2023	09 Dec 2022	05 Oct 2022
Machine Hours	<b>9153</b>	8745	7605	7280
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.6</b>	▲ 12.1	▲ 12.1	■ 12.8
Base Number (BN)	mg KOH/g	<b>■ 7.0</b>	■ 7.7	■ 11.2	■ 9.9
Oxidation (PA)	%	<b>92</b>	76	61	70

### 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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>■ 0.1</b>	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	<b>67</b>	47	48	60
Sulfation (PA)	%	<b>62</b>	55	56	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<b>▲ 2.2</b>	<1.0
Silicon	ppm	<b>■ 4</b>	■ 4	■ 3	■ 3
Sodium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 2
Potassium	ppm	<b>■ 0</b>	■ <1	■ 2	■ 0

### WEAR METALS

Iron	ppm	<b>■ 2</b>	■ 2	■ 6	■ 5
Copper	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Lead	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Tin	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Aluminum	ppm	<b>■ 2</b>	■ 0	■ 2	■ <1
Chromium	ppm	<b>■ 0</b>	■ <1	■ 0	■ <1
Molybdenum	ppm	<b>■ 60</b>	■ 31	■ 42	■ 31
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Titanium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Silver	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0
Manganese	ppm	<b>■ 0</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>■ 1817</b>	■ 1737	■ 1827	■ 1891
Magnesium	ppm	<b>■ 297</b>	■ 425	■ 434	■ 294
Zinc	ppm	<b>■ 1153</b>	■ 1116	■ 1114	■ 1111
Phosphorus	ppm	<b>■ 978</b>	■ 904	■ 933	■ 886
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 51</b>	■ 45	■ 57	■ 36

**Depot:** UNICICIL  
**Unique No:** 10802546  
**Signed:** Angela Borella  
**Report Date:** 22 Dec 2023

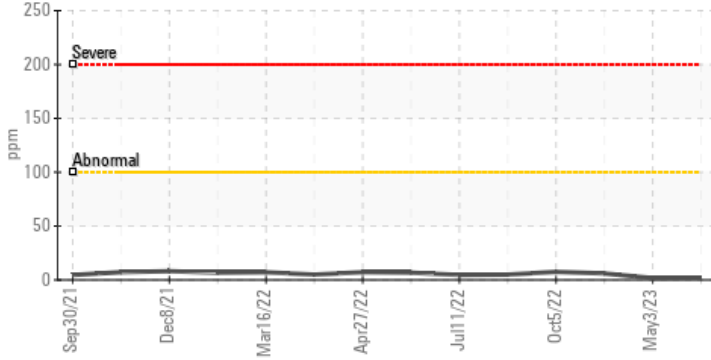


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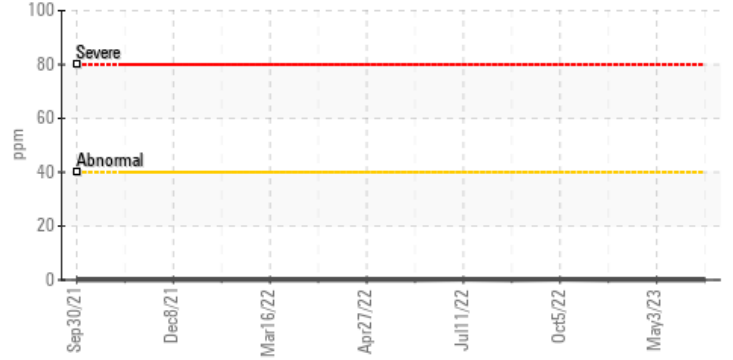


## GRAPHS

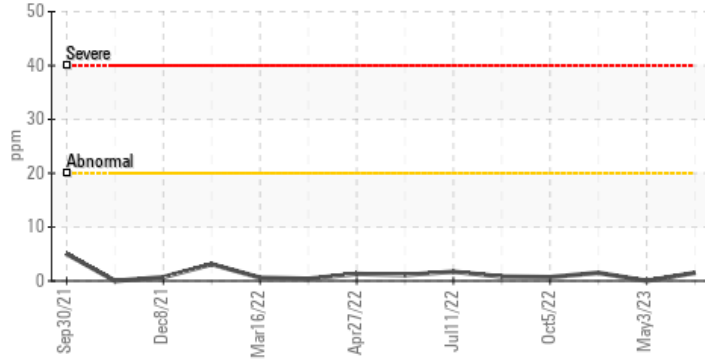
### Iron (ppm)



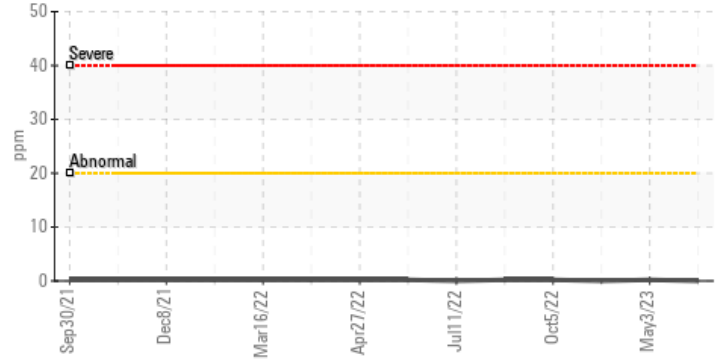
### Lead (ppm)



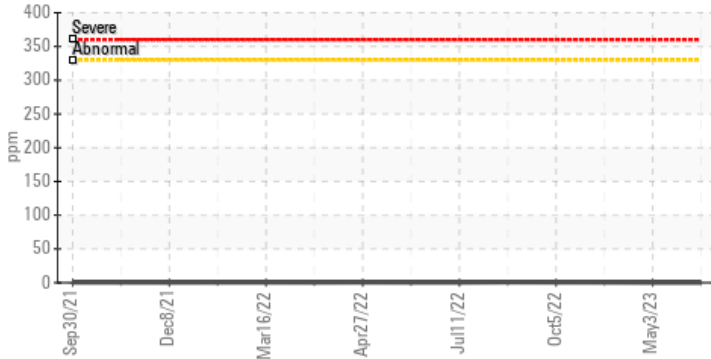
### Aluminum (ppm)



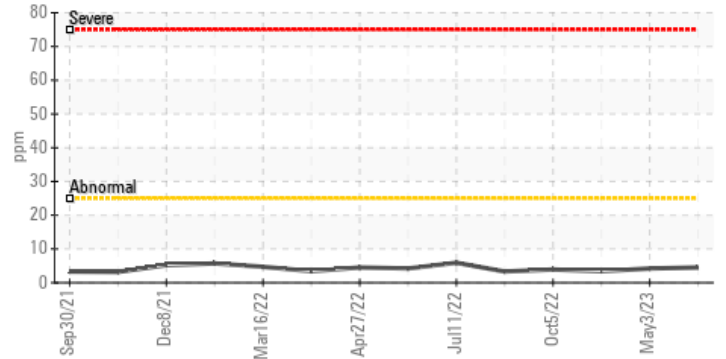
### Chromium (ppm)



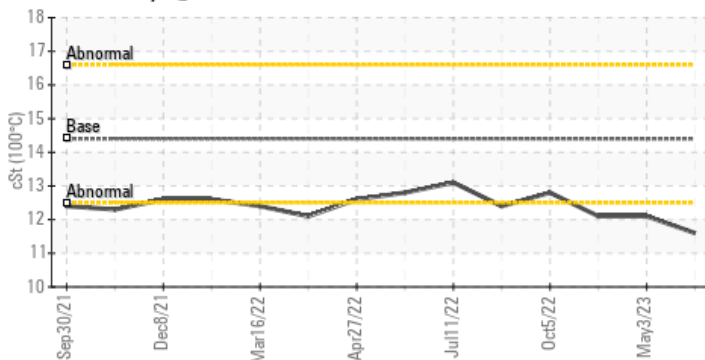
### Copper (ppm)



### Silicon (ppm)



### ▲ Viscosity @ 100°C



### Base Number

