



# CONSTRUCTION EQUIPMENT

## SENNEBOGEN 825 825.0.2194 - DIESEL ENGINE



**Sample No:** VCP441771  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP441771</b>	VCP406561	VCP441415	VCP370235
Sample Date	<b>17 Jan 2024</b>	21 Dec 2023	17 Nov 2023	20 May 2023
Machine Hours	<b>26062</b>	25797	25464	23494
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	MARGINAL	NORMAL

### UNITED SCRAP

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.7	13.7	13.8
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.4	8.7	8.7
Oxidation (PA)	%	<b>64</b>	69	70	66

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.5	0.5	0.3
Nitration (PA)	%	<b>60</b>	68	71	75
Sulfation (PA)	%	<b>57</b>	59	60	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	3	4	5
Sodium	ppm	<b>0</b>	4	7	3
Potassium	ppm	<b>3</b>	6	▲ 16	4



### WEAR METALS

Iron	ppm	<b>15</b>	13	9	6
Copper	ppm	<b>1</b>	0	<1	<1
Lead	ppm	<b>1</b>	0	0	<1
Tin	ppm	<b>1</b>	0	0	0
Aluminum	ppm	<b>2</b>	<1	2	<1
Chromium	ppm	<b>1</b>	<1	<1	<1
Molybdenum	ppm	<b>78</b>	67	76	76
Nickel	ppm	<b>1</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1309</b>	1308	1838	2157
Magnesium	ppm	<b>1231</b>	1016	504	182
Zinc	ppm	<b>1575</b>	1390	1334	1217
Phosphorus	ppm	<b>1208</b>	1076	979	1014
Barium	ppm	<b>1</b>	0	0	0
Boron	ppm	<b>5</b>	7	49	45

**Depot:** UNICICIL  
**Unique No:** 10844820  
**Signed:** Wes Davis  
**Report Date:** 23 Jan 2024



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## VOLVO GRAPHS

