



# CONSTRUCTION EQUIPMENT

CMC SENNEBOGEN 850 850.0.3186 - DIESEL ENGINE



**Sample No:** VCP438010  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** CMC



## SAMPLE INFORMATION

Sample Number	VCP438010	VCP407784	---	---
Sample Date	02 Jan 2024	11 Sep 2023	---	---
Machine Hours	1899	446	---	---
Oil Hours	500	446	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

### GREEN MACHINE SERVICES LLC

13 SPYROS DRIVE  
 SOUTH AMBOY, NJ  
 US 08879

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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	▲ 11.4	---	---
Base Number (BN)	mg KOH/g	█ 7.3	█ 6.6	---	---
Oxidation (PA)	%	117	62	---	---

### 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. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 acceptable for the time in service.



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.1	---	---
Nitration (PA)	%	101	83	---	---
Sulfation (PA)	%	71	53	---	---
Glycol	%	NEG	█ 0.0	---	---
Fuel	%	<1.0	█ 0.8	---	---
Silicon	ppm	█ 5	█ 6	---	---
Sodium	ppm	█ 1	█ 6	---	---
Potassium	ppm	43	90	---	---



## WEAR METALS

Iron	ppm	█ 40	█ 16	---	---
Copper	ppm	█ 4	█ 8	---	---
Lead	ppm	█ 2	█ 2	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	9	22	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 52	█ 87	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ 2	---	---
Vanadium	ppm	0	<1	---	---



## ADDITIVES

Calcium	ppm	█ 1845	█ 2333	---	---
Magnesium	ppm	█ 562	█ 145	---	---
Zinc	ppm	█ 1253	█ 1407	---	---
Phosphorus	ppm	█ 920	█ 1101	---	---
Barium	ppm	█ 4	█ 4	---	---
Boron	ppm	█ 49	█ 40	---	---

**Depot:** GRESOUNJ

**Unique No:** 10835357

**Signed:** Sean Felton

**Report Date:** 22 Jan 2024



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## GRAPHS

