

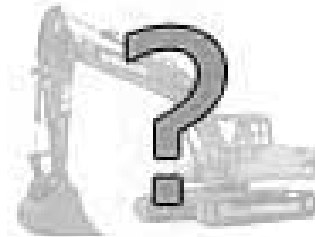


# CONSTRUCTION EQUIPMENT

1766 SENNEBOGEN 835E 835.0.2394 - DIESEL ENGINE



**Sample No:** VCP438329  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 1766



## SAMPLE INFORMATION

Sample Number	<b>VCP438329</b>	VCP424147	VCP397875	VCP307478
Sample Date	<b>02 Apr 2024</b>	04 Nov 2023	07 Feb 2023	10 Jun 2021
Machine Hours	<b>11497</b>	11082	9773	6949
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	Not Changd
Sample Status	<b>MARGINAL</b>	NORMAL	NORMAL	NORMAL

**SIMS METAL**  
 130 NORTH 12TH ST  
 SACRAMENTO, CA  
 US 95814  
 Contact: EVERT

## OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	12.8	12.7	12.9
Base Number (BN)	mg KOH/g	<b>9.4</b>	6.0	5.1	---
Oxidation (PA)	%	<b>88</b>	110	105	100

T: (916)769-7864  
 F:

## 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 %	%	<b>0.1</b>	0.3	0.3	0.3
Nitration (PA)	%	<b>67</b>	93	97	84
Sulfation (PA)	%	<b>63</b>	69	73	69
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>2.2</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	9	12	8
Sodium	ppm	<b>&lt;1</b>	3	3	2
Potassium	ppm	<b>8</b>	2	9	6

## WEAR METALS

Iron	ppm	<b>8</b>	18	35	26
Copper	ppm	<b>6</b>	3	5	3
Lead	ppm	<b>&lt;1</b>	2	2	2
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>4</b>	4	7	7
Chromium	ppm	<b>&lt;1</b>	<1	1	2
Molybdenum	ppm	<b>45</b>	53	60	42
Nickel	ppm	<b>&lt;1</b>	<1	<1	2
Titanium	ppm	<b>&lt;1</b>	<1	2	1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1662</b>	1702	1620	1684
Magnesium	ppm	<b>477</b>	487	475	522
Zinc	ppm	<b>1062</b>	1141	1142	1076
Phosphorus	ppm	<b>844</b>	812	893	912
Barium	ppm	<b>1</b>	0	<1	0
Boron	ppm	<b>43</b>	67	67	34

**Depot:** SIMSACCA  
**Unique No:** 10979838  
**Signed:** Wes Davis  
**Report Date:** 19 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

