



# CONSTRUCTION EQUIPMENT

## SENNEBOGEN 830 830.0.1477 - DIESEL ENGINE



**Sample No:** VCP0007092  
**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0007092</b>	VCP0002984	---	---
Sample Date	<b>11 Jan 2023</b>	26 Jul 2022	---	---
Machine Hours	<b>12675</b>	12056	---	---
Oil Hours	<b>619</b>	12056	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

### COMMERCIAL METALS COMPANY

410 ATANDO AVE  
 CHARLOTTE, NC  
 US 28206

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.3</b>	15.3	---	---
Base Number (BN)	mg KOH/g	<b>8.0</b>	8.0	---	---
Oxidation (PA)	%	<b>94</b>	106	---	---

### 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

Soot %	%	<b>1.8</b>	2.3	---	---
Nitration (PA)	%	<b>103</b>	121	---	---
Sulfation (PA)	%	<b>73</b>	87	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>10</b>	9	---	---
Sodium	ppm	<b>4</b>	2	---	---
Potassium	ppm	<b>1</b>	0	---	---



### WEAR METALS

Iron	ppm	<b>45</b>	47	---	---
Copper	ppm	<b>2</b>	2	---	---
Lead	ppm	<b>&lt;1</b>	2	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>5</b>	5	---	---
Chromium	ppm	<b>3</b>	3	---	---
Molybdenum	ppm	<b>70</b>	84	---	---
Nickel	ppm	<b>&lt;1</b>	<1	---	---
Titanium	ppm	<b>&lt;1</b>	0	---	---
Silver	ppm	<b>&lt;1</b>	<1	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>1815</b>	1500	---	---
Magnesium	ppm	<b>575</b>	807	---	---
Zinc	ppm	<b>1252</b>	1265	---	---
Phosphorus	ppm	<b>1005</b>	971	---	---
Barium	ppm	<b>1</b>	0	---	---
Boron	ppm	<b>76</b>	97	---	---

**Depot:** COMCHAVC  
**Unique No:** 10307146  
**Signed:** Wes Davis  
**Report Date:** 25 Jan 2023

Submitted By: CHRISTOPHER CANIPE



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## GRAPHS

