



# CONSTRUCTION EQUIPMENT

## 714988 SENNEBOGEN 840 2345 - DIESEL ENGINE



**Sample No:** VCP454468  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 714988



### SAMPLE INFORMATION

Sample Number	<b>VCP454468</b>	VCP429496	VCP413032	VCP421766
Sample Date	<b>14 May 2024</b>	11 Oct 2023	21 Jun 2023	03 Apr 2023
Machine Hours	<b>3005</b>	2072	1554	1029
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**FERROUS PROCESSING AND TRADING**  
 3400 E LAFAYETTE  
 DETROIT, MI  
 US 48207  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	13.7	12.9	12.7
Base Number (BN)	mg KOH/g	<b>9.0</b>	7.7	9.1	8.7
Oxidation (PA)	%	<b>68</b>	57	71	67

### 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>0.1</b>	0.1	0.2	0.2
Nitration (PA)	%	<b>71</b>	67	76	71
Sulfation (PA)	%	<b>54</b>	51	56	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	2	6
Sodium	ppm	<b>3</b>	2	1	4
Potassium	ppm	<b>7</b>	16	10	20

### WEAR METALS

Iron	ppm	<b>9</b>	7	8	24
Copper	ppm	<b>4</b>	1	<1	4
Lead	ppm	<b>2</b>	0	0	0
Tin	ppm	<b>3</b>	<1	0	<1
Aluminum	ppm	<b>4</b>	7	<1	7
Chromium	ppm	<b>3</b>	<1	0	1
Molybdenum	ppm	<b>61</b>	65	60	93
Nickel	ppm	<b>2</b>	0	0	0
Titanium	ppm	<b>2</b>	0	<1	<1
Silver	ppm	<b>3</b>	0	0	0
Manganese	ppm	<b>2</b>	<1	<1	1
Vanadium	ppm	<b>2</b>	0	0	<1

### ADDITIVES

Calcium	ppm	<b>1068</b>	1680	1087	1717
Magnesium	ppm	<b>935</b>	333	991	1438
Zinc	ppm	<b>1196</b>	1081	1323	1971
Phosphorus	ppm	<b>997</b>	902	1046	1561
Barium	ppm	<b>1</b>	0	14	0
Boron	ppm	<b>2</b>	47	0	8

**Depot:** FERDET  
**Unique No:** 11033702  
**Signed:** Don Baldrige  
**Report Date:** 20 May 2024



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## GRAPHS

