



# CONSTRUCTION EQUIPMENT

## 702352 SENNEBOGEN 840 840.0.2369 - DIESEL ENGINE



**Sample No:** VCP445535  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 702352



### SAMPLE INFORMATION

Sample Number	<b>VCP445535</b>	VCP445839	VCP424040	VCP408794
Sample Date	<b>24 Apr 2024</b>	10 Feb 2024	10 Aug 2023	18 May 2023
Machine Hours	<b>2772</b>	2322	1119	534
Oil Hours	<b>500</b>	500	500	534
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	NORMAL	ABNORMAL

### FERROUS PROCESSING AND TRADING

3400 E LAFAYETTE  
 DETROIT, MI  
 US 48207

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	12.4	13.3	11.3
Base Number (BN)	mg KOH/g	<b>6.5</b>	8.3	6.2	6.4
Oxidation (PA)	%	<b>73</b>	61	73	73

### 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>0.2</b>	0.3	0.2	0.2
Nitration (PA)	%	<b>88</b>	68	91	88
Sulfation (PA)	%	<b>58</b>	55	59	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	3.6	<1.0	2.5
Silicon	ppm	<b>4</b>	2	5	16
Sodium	ppm	<b>&lt;1</b>	2	2	8
Potassium	ppm	<b>3</b>	2	19	24

### WEAR METALS

Iron	ppm	<b>9</b>	9	13	26
Copper	ppm	<b>&lt;1</b>	<1	2	14
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	3	8	8
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>89</b>	60	90	79
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	3
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	5
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>2222</b>	1262	2325	2124
Magnesium	ppm	<b>77</b>	719	46	147
Zinc	ppm	<b>1213</b>	1032	1349	1248
Phosphorus	ppm	<b>1032</b>	947	1055	964
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>44</b>	11	34	40

**Depot:** FERDET  
**Unique No:** 11007260  
**Signed:** Wes Davis  
**Report Date:** 03 May 2024



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## GRAPHS

