



# CONSTRUCTION EQUIPMENT

## SPM578994 AMG SENNEBOGEN 835M 835.0.2002 - DIESEL ENGINE



**Sample No:** VCP422573  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM578994 AMG



### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP422573</b>   | VCP406720   | VCP404076   | VCP381034   |
| Sample Date   | <b>07 Jul 2023</b> | 14 Apr 2023 | 18 Jan 2023 | 04 Jan 2023 |
| Machine Hours | <b>8436</b>        | 13746       | 12854       | 4568        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Not Changd  |
| Sample Status | <b>MARGINAL</b>    | ABNORMAL    | ABNORMAL    | SEVERE      |

**ALTA EQUIPMENT CO - ORLAND PARK**  
 5000 INDUSTRIAL HWY  
 GARY, IN  
 US 46406  
 Contact: DAVE ENG  
 DAVE.ENG@ALTG.COM  
 T: (312)350-2560  
 F:



### OIL CONDITION

|                  |          |             |      |      |      |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C     | cSt      | <b>15.1</b> | 15.2 | 11.6 | 10.7 |
| Base Number (BN) | mg KOH/g | <b>8.2</b>  | 6.4  | 8.0  | 8.2  |
| Oxidation (PA)   | %        | <b>131</b>  | 152  | 106  | 94   |

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. 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 acceptable for the time in service.



### CONTAMINATION

|                |     |            |     |     |      |
|----------------|-----|------------|-----|-----|------|
| Soot %         | %   | <b>1.3</b> | 1.6 | 0.9 | 0.8  |
| Nitration (PA) | %   | <b>155</b> | 158 | 128 | 115  |
| Sulfation (PA) | %   | <b>83</b>  | 85  | 68  | 63   |
| Glycol         | %   | <b>NEG</b> | NEG | NEG | NEG  |
| Fuel           | %   | <b>3.0</b> | 5.2 | 7.3 | 11.5 |
| Silicon        | ppm | <b>7</b>   | 7   | 6   | 5    |
| Sodium         | ppm | <b>3</b>   | 3   | 2   | 1    |
| Potassium      | ppm | <b>0</b>   | 0   | 0   | 1    |



### WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>91</b>    | 89 | 58 | 43 |
| Copper     | ppm | <b>3</b>     | 3  | 2  | 1  |
| Lead       | ppm | <b>0</b>     | 0  | 0  | <1 |
| Tin        | ppm | <b>&lt;1</b> | <1 | <1 | <1 |
| Aluminum   | ppm | <b>4</b>     | 5  | 3  | 3  |
| Chromium   | ppm | <b>4</b>     | 4  | 2  | 2  |
| Molybdenum | ppm | <b>75</b>    | 63 | 57 | 57 |
| Nickel     | ppm | <b>&lt;1</b> | 0  | <1 | <1 |
| Titanium   | ppm | <b>&lt;1</b> | <1 | <1 | <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>1345</b> | 970  | 1034 | 1098 |
| Magnesium  | ppm | <b>1220</b> | 926  | 876  | 959  |
| Zinc       | ppm | <b>1500</b> | 1144 | 1144 | 1257 |
| Phosphorus | ppm | <b>1212</b> | 959  | 885  | 941  |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>0</b>    | 1    | 0    | <1   |

**Depot:** VOLVO8885  
**Unique No:** 10573983  
**Signed:** Don Baldrige  
**Report Date:** 27 Jul 2023



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## GRAPHS

