



CONSTRUCTION EQUIPMENT

SPM646500 AMG RES SENNEBOGEN 835M 835.0.2002 - DIESEL ENGINE



Sample No: VCP435730
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM646500 AMG RES



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP435730 | VCP422573 | VCP406720 | VCP404076 |
| Sample Date | 04 Jan 2024 | 07 Jul 2023 | 14 Apr 2023 | 18 Jan 2023 |
| Machine Hours | 15647 | 8436 | 13746 | 12854 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | ABNORMAL | MARGINAL | ABNORMAL | ABNORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.8 | 15.1 | 15.2 | 11.6 |
| Base Number (BN) | mg KOH/g | 8.4 | 8.2 | 6.4 | 8.0 |
| Oxidation (PA) | % | 116 | 131 | 152 | 106 |

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

| | | | | | |
|----------------|-----|------------|-----|-----|-----|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 1.3 | 1.3 | 1.6 | 0.9 |
| Nitration (PA) | % | 138 | 155 | 158 | 128 |
| Sulfation (PA) | % | 74 | 83 | 85 | 68 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | 6.7 | 3.0 | 5.2 | 7.3 |
| Silicon | ppm | 9 | 7 | 7 | 6 |
| Sodium | ppm | 75 | 3 | 3 | 2 |
| Potassium | ppm | 27 | 0 | 0 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 63 | 91 | 89 | 58 |
| Copper | ppm | 2 | 3 | 3 | 2 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | <1 | <1 | <1 |
| Aluminum | ppm | 4 | 4 | 5 | 3 |
| Chromium | ppm | 3 | 4 | 4 | 2 |
| Molybdenum | ppm | 76 | 75 | 63 | 57 |
| Nickel | ppm | <1 | <1 | 0 | <1 |
| Titanium | ppm | <1 | <1 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | 1 | <1 |
| Vanadium | ppm | 0 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1048 | 1345 | 970 | 1034 |
| Magnesium | ppm | 1013 | 1220 | 926 | 876 |
| Zinc | ppm | 1277 | 1500 | 1144 | 1144 |
| Phosphorus | ppm | 895 | 1212 | 959 | 885 |
| Barium | ppm | 11 | 0 | 0 | 0 |
| Boron | ppm | 1 | 0 | 1 | 0 |

Depot: VOLVO8885
Unique No: 10882793
Signed: Doug Bogart
Report Date: 20 Feb 2024



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VOLVO GRAPHS

