



CONSTRUCTION EQUIPMENT

SWA474120-10 ALTER SENNEBOGEN 835 835.0.2487 - DIESEL ENGINE



Sample No: VCP432719
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA474120-10 ALTER



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP432719 | VCP363689 | --- | --- |
| Sample Date | 05 Feb 2024 | 25 Oct 2022 | --- | --- |
| Machine Hours | 11725 | 8905 | --- | --- |
| Oil Hours | 500 | 500 | --- | --- |
| Oil Changed | Changed | N/A | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

ALTA EQUIPMENT COMPANY

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 12.9 | █ 13.0 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 6.5 | █ 8.1 | --- | --- |
| Oxidation (PA) | % | 108 | 108 | --- | --- |

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 acceptable for the time in service.



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | █ 0.2 | █ 0.3 | --- | --- |
| Nitration (PA) | % | 93 | 106 | --- | --- |
| Sulfation (PA) | % | 68 | 71 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | █ 6 | █ 6 | --- | --- |
| Sodium | ppm | █ 0 | █ 1 | --- | --- |
| Potassium | ppm | █ 6 | █ 9 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 19 | █ 18 | --- | --- |
| Copper | ppm | █ 2 | █ 2 | --- | --- |
| Lead | ppm | █ 0 | █ <1 | --- | --- |
| Tin | ppm | █ 0 | █ <1 | --- | --- |
| Aluminum | ppm | █ 2 | █ 5 | --- | --- |
| Chromium | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 88 | █ 51 | --- | --- |
| Nickel | ppm | █ 0 | █ 0 | --- | --- |
| Titanium | ppm | 0 | <1 | --- | --- |
| Silver | ppm | █ 0 | █ 2 | --- | --- |
| Manganese | ppm | █ 0 | █ <1 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 1505 | █ 1658 | --- | --- |
| Magnesium | ppm | █ 1235 | █ 587 | --- | --- |
| Zinc | ppm | █ 1701 | █ 1230 | --- | --- |
| Phosphorus | ppm | █ 1262 | █ 987 | --- | --- |
| Barium | ppm | █ <1 | █ 0 | --- | --- |
| Boron | ppm | █ 3 | █ 24 | --- | --- |

Depot: VOLVO5054
Unique No: 10888096
Signed: Sean Felton
Report Date: 22 Feb 2024



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GRAPHS

