



CONSTRUCTION EQUIPMENT

19806 MM-CLARKS VOLVO A45G 353485 - DIESEL ENGINE



Sample No: VCP441260
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19806 MM-CLARKS



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SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP441260 | --- | --- | --- |
| Sample Date | 25 Sep 2023 | --- | --- | --- |
| Machine Hours | 943 | --- | --- | --- |
| Oil Hours | 462 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |



OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 12.8 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.1 | --- | --- | --- |
| Oxidation (PA) | % | 55 | --- | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | █ 0.4 | --- | --- | --- |
| Nitration (PA) | % | 58 | --- | --- | --- |
| Sulfation (PA) | % | 51 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 9 | --- | --- | --- |
| Sodium | ppm | █ <1 | --- | --- | --- |
| Potassium | ppm | █ <1 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 11 | --- | --- | --- |
| Copper | ppm | █ 19 | --- | --- | --- |
| Lead | ppm | █ 0 | --- | --- | --- |
| Tin | ppm | █ 2 | --- | --- | --- |
| Aluminum | ppm | █ 2 | --- | --- | --- |
| Chromium | ppm | █ 0 | --- | --- | --- |
| Molybdenum | ppm | █ 60 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | █ <1 | --- | --- | --- |
| Manganese | ppm | █ <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1236 | --- | --- | --- |
| Magnesium | ppm | █ 833 | --- | --- | --- |
| Zinc | ppm | █ 1270 | --- | --- | --- |
| Phosphorus | ppm | █ 1072 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 8 | --- | --- | --- |

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.

Depot: VOLVO8769
Unique No: 10701635
Signed: Don Baldrige
Report Date: 21 Oct 2023



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GRAPHS

