



CONSTRUCTION EQUIPMENT

23980 VOLVO A40G 352464 - DIESEL ENGINE



Sample No: VCP435176
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23980



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP435176 | VCP407057 | --- | --- |
| Sample Date | 09 Sep 2023 | 25 May 2023 | --- | --- |
| Machine Hours | 3992 | 3349 | --- | --- |
| Oil Hours | 1000 | 1000 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 12.1 | █ 12.7 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.0 | █ 6.0 | --- | --- |
| Oxidation (PA) | % | 70 | 68 | --- | --- |

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. 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 suitable for further service.



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|-----|-----|
| Soot % | % | █ 0.2 | █ 0.2 | --- | --- |
| Nitration (PA) | % | 71 | 77 | --- | --- |
| Sulfation (PA) | % | 56 | 55 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | █ 2.2 | <1.0 | --- | --- |
| Silicon | ppm | █ 6 | █ 4 | --- | --- |
| Sodium | ppm | █ 3 | █ 3 | --- | --- |
| Potassium | ppm | █ 3 | █ 2 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 8 | █ 14 | --- | --- |
| Copper | ppm | █ 2 | █ 5 | --- | --- |
| Lead | ppm | █ 1 | █ 1 | --- | --- |
| Tin | ppm | █ 2 | █ 2 | --- | --- |
| Aluminum | ppm | █ 1 | █ 2 | --- | --- |
| Chromium | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 41 | █ 64 | --- | --- |
| Nickel | ppm | █ <1 | █ 2 | --- | --- |
| Titanium | ppm | <1 | 0 | --- | --- |
| Silver | ppm | █ 0 | █ 0 | --- | --- |
| Manganese | ppm | █ <1 | █ <1 | --- | --- |
| Vanadium | ppm | <1 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 1973 | █ 1179 | --- | --- |
| Magnesium | ppm | █ 537 | █ 941 | --- | --- |
| Zinc | ppm | █ 1198 | █ 1379 | --- | --- |
| Phosphorus | ppm | █ 972 | █ 1081 | --- | --- |
| Barium | ppm | █ 0 | █ 0 | --- | --- |
| Boron | ppm | █ 30 | █ 6 | --- | --- |

Depot: VOLVO3387
Unique No: 10647854
Signed: Wes Davis
Report Date: 18 Sep 2023



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GRAPHS

