

[W02008429] Machine Id VOLVO EC350E 314308 Component Diesel Engine

{not provided} (14 GAL)

RECOMMENDATION

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. (Customer Sample Comment: W02008429)

WEAR

All component wear rates are normal.

CONTAMINATION

There is a moderate amount of fuel present in the oil.

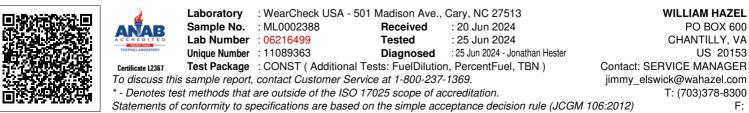
FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | ML0002388 | | |
| Sample Date | | Client Info | | 19 Jun 2024 | | |
| Machine Age | hrs | Client Info | | 3369 | | |
| Oil Age | hrs | Client Info | | 3369 | | |
| Filter Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | Changed | | |
| Filter Changed | | Client Info | | Changed | | |
| Sample Status | | | | ABNORMAL | | |
| | | | | | | |
| Iron | ppm | ASTM D5185m | >100 | 3 | | |
| Chromium | ppm | ASTM D5185m | >10 | <1 | | |
| Nickel | ppm | ASTM D5185m | >10 | 0 | | |
| Titanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | >2 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | | |
| Lead | ppm | ASTM D5185m | >20 | <1 | | |
| Copper | ppm | ASTM D5185m | >15 | 6 | | |
| Tin | ppm | ASTM D5185m | >10 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| White Metal | scalar | *Visual | NONE | NONE | | |
| Yellow Metal | scalar | *Visual | NONE | NONE | | |
| | | | | | | |
| Silicon | ppm | ASTM D5185m | >20 | 6 | | |
| Potassium | ppm | ASTM D5185m | >20 | 2 | | |
| Fuel | % | ASTM D3524 | >6.0 | 8 .4 | | |
| Water | | WC Method | >0.1 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| Soot % | % | *ASTM D7844 | >3 | 0 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.6 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.4 | | |
| Silt | scalar | *Visual | NONE | NONE | | |
| Debris | scalar | *Visual | NONE | NONE | | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| Appearance | scalar | *Visual | NORML | NORML | | |
| Odor | scalar | *Visual | NORML | NORML | | |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | | |
| | | | | | | |
| Sodium | ppm | ASTM D5185m | | <1 | | |
| Boron | ppm | ASTM D5185m | | 52 | | |
| Barium | ppm | ASTM D5185m | | 0 | | |
| Molybdenum | ppm | ASTM D5185m | | 41 | | |
| Manganese | ppm | ASTM D5185m | | 0 | | |
| Magnesium | ppm | ASTM D5185m | | 454 | | |
| Calcium | ppm | ASTM D5185m | | 1540 | | |
| Phosphorus | ppm | ASTM D5185m | | 706 | | |
| Zinc | ppm | ASTM D5185m | | 861 | | |
| Sulfur | ppm | ASTM D5185m | | 2356 | | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.3 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.9 | | |
| Visc @ 100°C | cSt | ASTM D445 | | A 10.0 | | |

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ABNORMAL





Submitted By: DARRELL ANDES Page 2 of 2