



CONSTRUCTION EQUIPMENT

23740 VOLVO L60H 1123 - DIESEL ENGINE



Sample No: VCP424781
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23740



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP424781 | --- | --- | --- |
| Sample Date | 20 Jul 2023 | --- | --- | --- |
| Machine Hours | 9337 | --- | --- | --- |
| Oil Hours | 1000 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

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 Contact: MATT MITCHAM
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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 14.5 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.1 | --- | --- | --- |
| Oxidation (PA) | % | █ 106 | --- | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|--------|-----|-----|-----|
| Soot % | % | █ 1.1 | --- | --- | --- |
| Nitration (PA) | % | █ 106 | --- | --- | --- |
| Sulfation (PA) | % | █ 80 | --- | --- | --- |
| Glycol | % | █ NEG | --- | --- | --- |
| Fuel | % | █ <1.0 | --- | --- | --- |
| Silicon | ppm | ▲ 25 | --- | --- | --- |
| Sodium | ppm | █ 4 | --- | --- | --- |
| Potassium | ppm | █ 3 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ▲ 117 | --- | --- | --- |
| Copper | ppm | █ 8 | --- | --- | --- |
| Lead | ppm | █ 11 | --- | --- | --- |
| Tin | ppm | █ 2 | --- | --- | --- |
| Aluminum | ppm | ▲ 22 | --- | --- | --- |
| Chromium | ppm | █ 4 | --- | --- | --- |
| Molybdenum | ppm | █ 34 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | <1 | --- | --- | --- |
| Silver | ppm | █ <1 | --- | --- | --- |
| Manganese | ppm | █ 2 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 2118 | --- | --- | --- |
| Magnesium | ppm | █ 354 | --- | --- | --- |
| Zinc | ppm | █ 1250 | --- | --- | --- |
| Phosphorus | ppm | █ 993 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 38 | --- | --- | --- |

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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: VOLVO3387
Unique No: 10574164
Signed: Sean Felton
Report Date: 28 Jul 2023



CONSTRUCTION EQUIPMENT

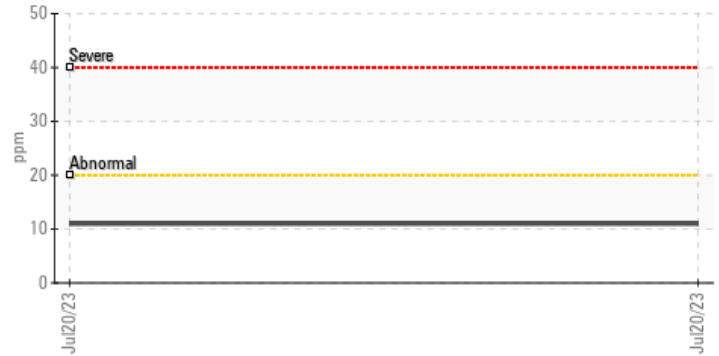


GRAPHS

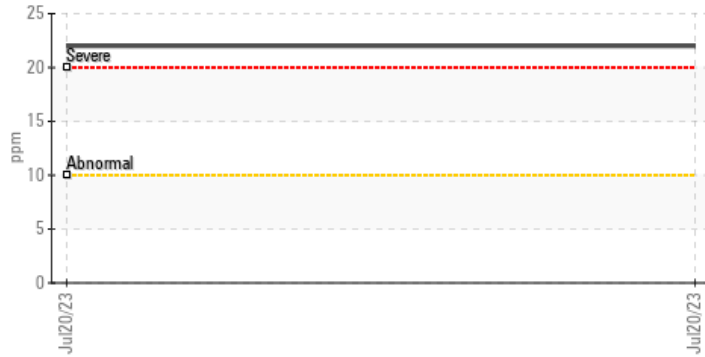
▲ Iron (ppm)



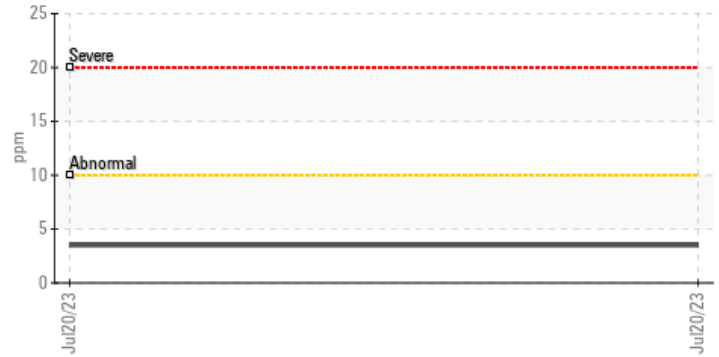
Lead (ppm)



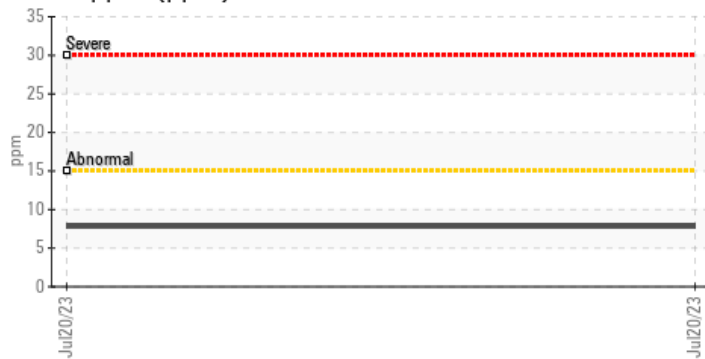
▲ Aluminum (ppm)



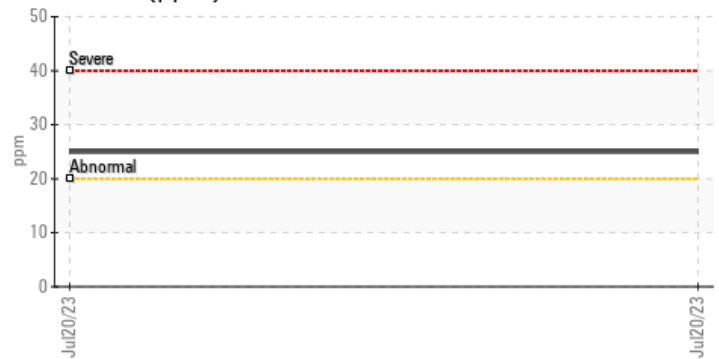
Chromium (ppm)



Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 100°C



Base Number

