



CONSTRUCTION EQUIPMENT

S50900687 PERRAULT VOLVO L110G 8392 - DIESEL ENGINE



Sample No: VCP436788
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50900687 PERRAULT



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP436788 | VCP337858 | --- | --- |
| Sample Date | 02 Feb 2024 | 25 Jan 2023 | --- | --- |
| Machine Hours | 0 | 15970 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Not Changd | --- | --- |
| Sample Status | ABNORMAL | SEVERE | --- | --- |

VCES- VOLVO CONSTRUCTION EQUIPMENT
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 US 92040
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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 14.2 | ▲ 17.2 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.9 | █ 15.5 | --- | --- |
| Oxidation (PA) | % | 57 | 76 | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|-------|--------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | █ 1 | ▲ 3.1 | --- | --- |
| Nitration (PA) | % | 78 | 143 | --- | --- |
| Sulfation (PA) | % | 57 | 83 | --- | --- |
| Glycol | % | NEG | ▲ 0.20 | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | █ 17 | █ 18 | --- | --- |
| Sodium | ppm | ▲ 98 | ▲ 1403 | --- | --- |
| Potassium | ppm | ▲ 159 | ▲ 1714 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 29 | █ 37 | --- | --- |
| Copper | ppm | █ 3 | █ 6 | --- | --- |
| Lead | ppm | █ <1 | █ 6 | --- | --- |
| Tin | ppm | █ 1 | █ 2 | --- | --- |
| Aluminum | ppm | █ 11 | █ 11 | --- | --- |
| Chromium | ppm | █ 2 | █ 1 | --- | --- |
| Molybdenum | ppm | █ 35 | 214 | --- | --- |
| Nickel | ppm | █ 1 | █ <1 | --- | --- |
| Titanium | ppm | 1 | <1 | --- | --- |
| Silver | ppm | █ <1 | █ 0 | --- | --- |
| Manganese | ppm | █ 1 | █ <1 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 1217 | █ 1325 | --- | --- |
| Magnesium | ppm | █ 650 | █ 513 | --- | --- |
| Zinc | ppm | █ 821 | █ 844 | --- | --- |
| Phosphorus | ppm | █ 676 | █ 735 | --- | --- |
| Barium | ppm | █ 1 | █ 0 | --- | --- |
| Boron | ppm | █ 74 | █ 57 | --- | --- |

Diagnosis

We advise that you check for possible coolant leak. Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels remain high. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VOLVO4488
Unique No: 10900472
Signed: Jonathan Hester
Report Date: 01 Mar 2024



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GRAPHS

