



CONSTRUCTION EQUIPMENT

W0230353 VOLVO L90H 623323 - DIESEL ENGINE



Sample No: VCP419595
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: W0230353



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP419595 | VCP428599 | --- | --- |
| Sample Date | 16 Apr 2024 | 30 Jan 2024 | --- | --- |
| Machine Hours | 0 | 0 | --- | --- |
| Oil Hours | 16426 | 16000 | --- | --- |
| Oil Changed | N/A | N/A | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 13.8 | █ 14.0 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.0 | █ 9.4 | --- | --- |
| Oxidation (PA) | % | 66 | 65 | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | █ 0.6 | █ 0.3 | --- | --- |
| Nitration (PA) | % | 62 | 50 | --- | --- |
| Sulfation (PA) | % | 64 | 65 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | █ 9 | █ 10 | --- | --- |
| Sodium | ppm | █ 3 | █ 0 | --- | --- |
| Potassium | ppm | █ 0 | █ <1 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------|-------|-----|-----|
| Iron | ppm | █ 8 | █ 10 | --- | --- |
| Copper | ppm | █ <1 | █ 1 | --- | --- |
| Lead | ppm | █ 0 | █ <1 | --- | --- |
| Tin | ppm | █ 0 | █ 0 | --- | --- |
| Aluminum | ppm | █ 5 | █ 4 | --- | --- |
| Chromium | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 121 | █ 139 | --- | --- |
| Nickel | ppm | █ 0 | █ 0 | --- | --- |
| Titanium | ppm | █ <1 | █ 0 | --- | --- |
| Silver | ppm | █ 0 | █ 0 | --- | --- |
| Manganese | ppm | █ <1 | █ <1 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 1521 | █ 1569 | --- | --- |
| Magnesium | ppm | █ 621 | █ 707 | --- | --- |
| Zinc | ppm | █ 761 | █ 846 | --- | --- |
| Phosphorus | ppm | █ 666 | █ 796 | --- | --- |
| Barium | ppm | █ 0 | █ 3 | --- | --- |
| Boron | ppm | █ 298 | █ 389 | --- | --- |

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 suitable for further service.

Depot: VOLVO0081
Unique No: 10990970
Signed: Wes Davis
Report Date: 23 Apr 2024

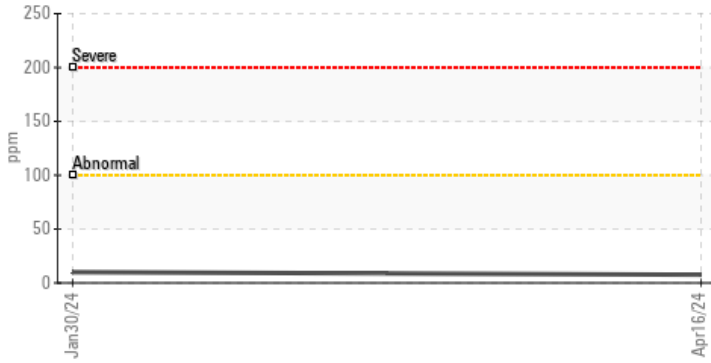


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GRAPHS

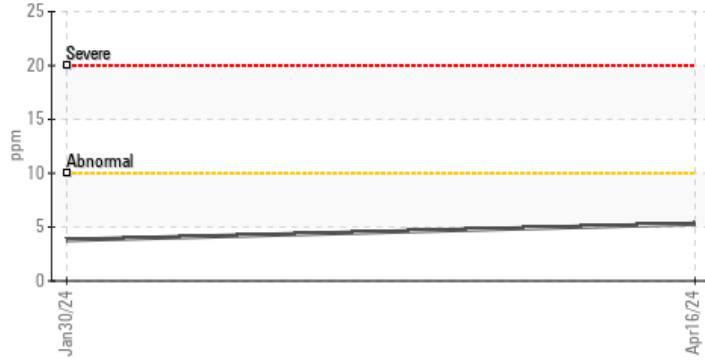
Iron (ppm)



Lead (ppm)



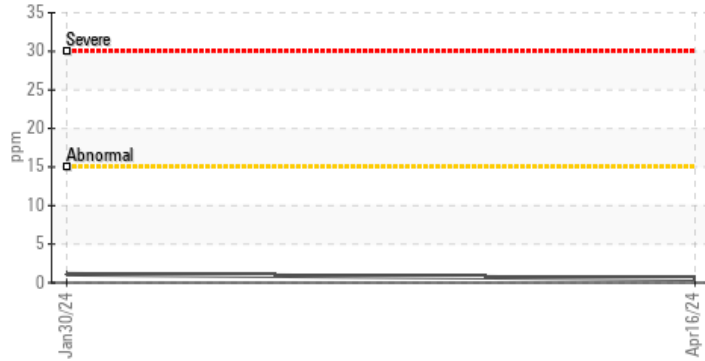
Aluminum (ppm)



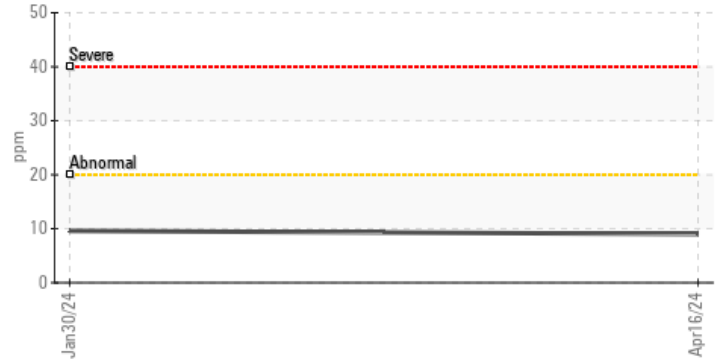
Chromium (ppm)



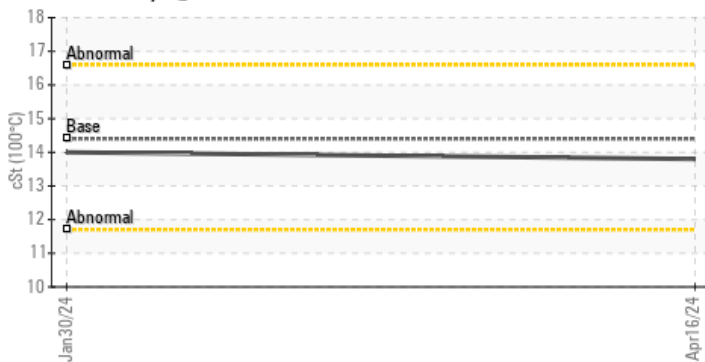
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

