



CONSTRUCTION EQUIPMENT

381029 VOLVO L90H 623870 - DIESEL ENGINE



Sample No: VCP380405
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 381029



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP380405 | VCP391952 | VCP352731 | VCP352990 |
| Sample Date | 11 Oct 2023 | 13 Jun 2023 | 10 Feb 2023 | 25 Oct 2022 |
| Machine Hours | 11642 | 11117 | 10610 | 10118 |
| Oil Hours | 500 | 500 | 500 | 500 |
| Oil Changed | Changed | Changed | N/A | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



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OIL CONDITION

| | | | | | |
|----------------|-----|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.8 | 13.3 | 13.3 | 13.3 |
| Oxidation (PA) | % | 79 | 83 | 85 | 84 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Soot % | % | 0.1 | 0.1 | 0 | 0.1 |
| Nitration (PA) | % | 57 | 58 | 60 | 60 |
| Sulfation (PA) | % | 61 | 63 | 67 | 64 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 4 | 6 | 4 | 5 |
| Sodium | ppm | 2 | 3 | 3 | 2 |
| Potassium | ppm | 0 | 0 | 0 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 5 | 6 | 6 | 6 |
| Copper | ppm | <1 | <1 | <1 | <1 |
| Lead | ppm | <1 | <1 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | 1 | 2 | 2 | 1 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 40 | 40 | 42 | 42 |
| Nickel | ppm | <1 | <1 | 0 | 0 |
| Titanium | ppm | 0 | 0 | <1 | <1 |
| Silver | ppm | <1 | 0 | 0 | 0 |
| Manganese | ppm | 0 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 1689 | 1803 | 1765 | 1735 |
| Magnesium | ppm | 498 | 509 | 515 | 514 |
| Zinc | ppm | 1086 | 1090 | 1095 | 1077 |
| Phosphorus | ppm | 928 | 991 | 1001 | 1019 |
| Barium | ppm | <1 | 0 | 0 | 0 |
| Boron | ppm | 40 | 42 | 46 | 39 |

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.

Depot: VOLVO0228
Unique No: 5658926
Signed: Wes Davis
Report Date: 18 Oct 2023

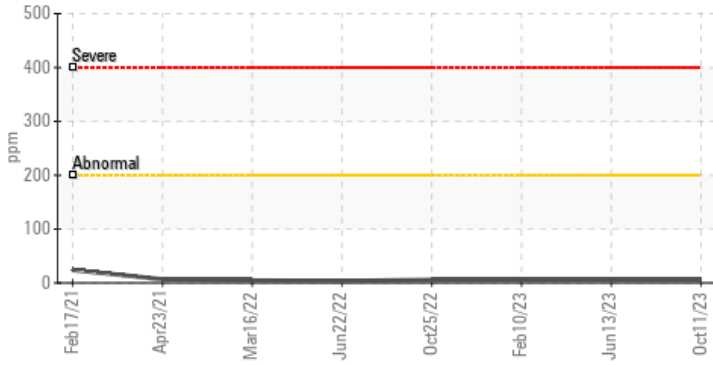


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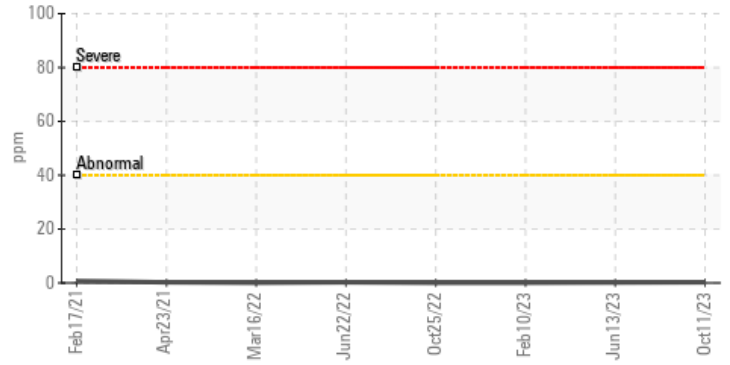


GRAPHS

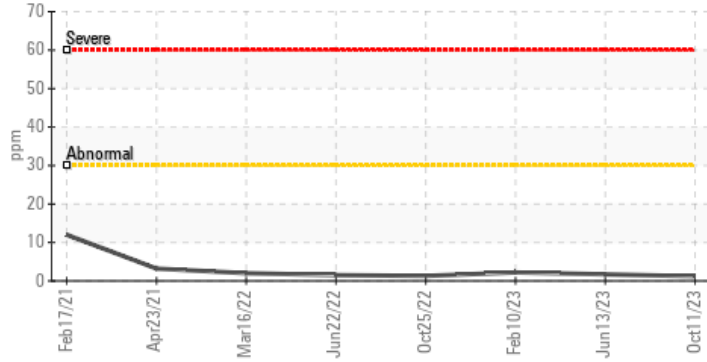
Iron (ppm)



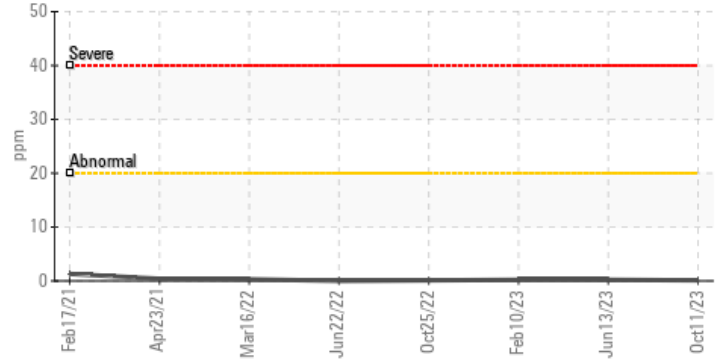
Lead (ppm)



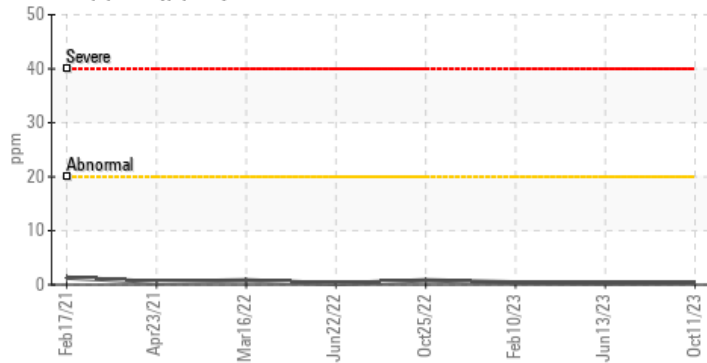
Aluminum (ppm)



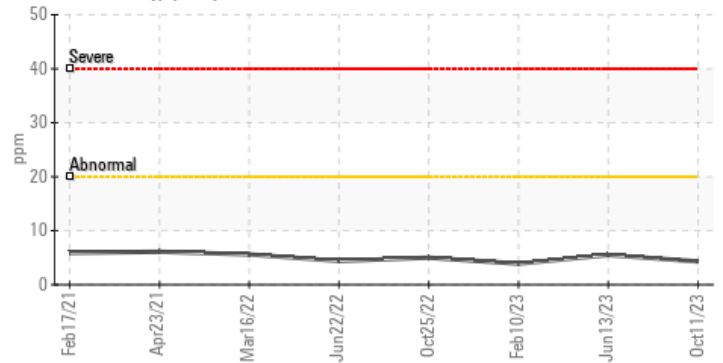
Chromium (ppm)



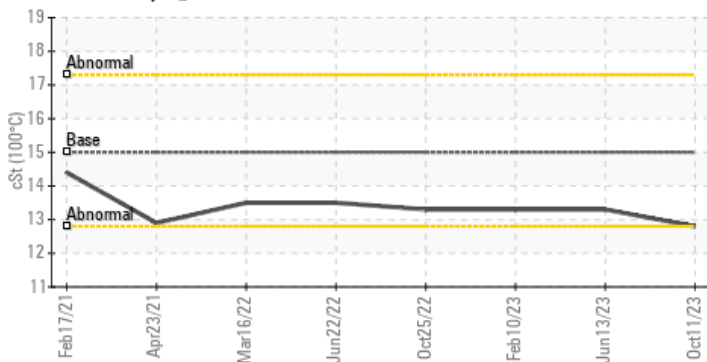
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

