



CONSTRUCTION EQUIPMENT

VOLVO A45G 352973 - DIESEL ENGINE



Sample No: VCP454885
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP454885 | VCP442555 | VCP433864 | VCP426207 |
| Sample Date | 25 Jun 2024 | 07 Mar 2024 | 08 Nov 2023 | 24 Aug 2023 |
| Machine Hours | 4536 | 4034 | 3521 | 3044 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

SAIIA CONSTRUCTION LLC
 4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207
 Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.7 | 12.5 | 12.8 | 12.5 |
| Base Number (BN) | mg KOH/g | 9.5 | 6.2 | 9.0 | 9.7 |
| Oxidation (PA) | % | 77 | 65 | 71 | 78 |

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.



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.4 | 0.4 | 0.4 | 0.3 |
| Nitration (PA) | % | 63 | 83 | 62 | 59 |
| Sulfation (PA) | % | 59 | 52 | 57 | 60 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 4 | 4 | 7 | 5 |
| Sodium | ppm | 2 | 3 | 0 | <1 |
| Potassium | ppm | 2 | 0 | 1 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|----|----|
| Iron | ppm | 8 | 13 | 11 | 7 |
| Copper | ppm | 2 | 2 | 4 | <1 |
| Lead | ppm | <1 | 0 | 0 | <1 |
| Tin | ppm | <1 | 0 | <1 | 1 |
| Aluminum | ppm | 3 | 3 | 1 | 1 |
| Chromium | ppm | 0 | 0 | <1 | <1 |
| Molybdenum | ppm | 49 | 100 | 49 | 42 |
| Nickel | ppm | 2 | 2 | 2 | 1 |
| Titanium | ppm | 0 | 0 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 0 | 0 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1712 | 1346 | 1436 | 1631 |
| Magnesium | ppm | 503 | 617 | 610 | 454 |
| Zinc | ppm | 1128 | 843 | 1096 | 911 |
| Phosphorus | ppm | 981 | 775 | 939 | 756 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 48 | 76 | 27 | 34 |

Depot: SAIBIR
Unique No: 11113280
Signed: Sean Felton
Report Date: 09 Jul 2024

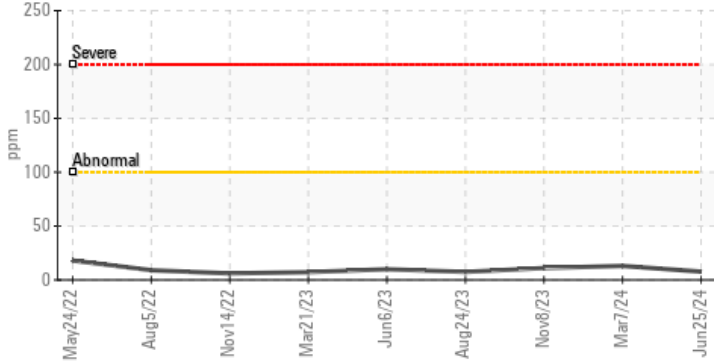


CONSTRUCTION EQUIPMENT

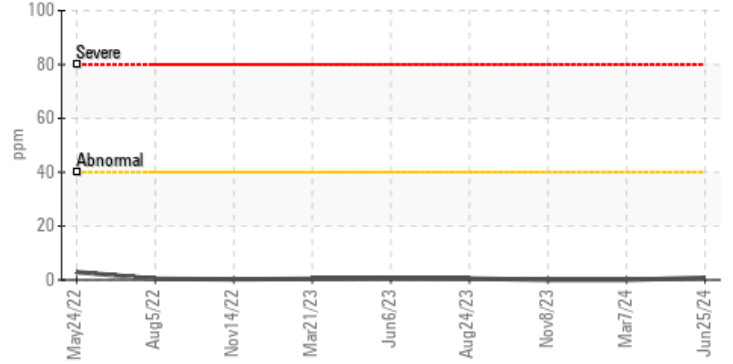


GRAPHS

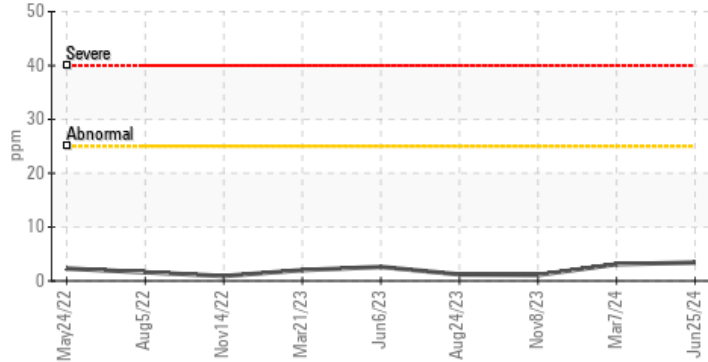
Iron (ppm)



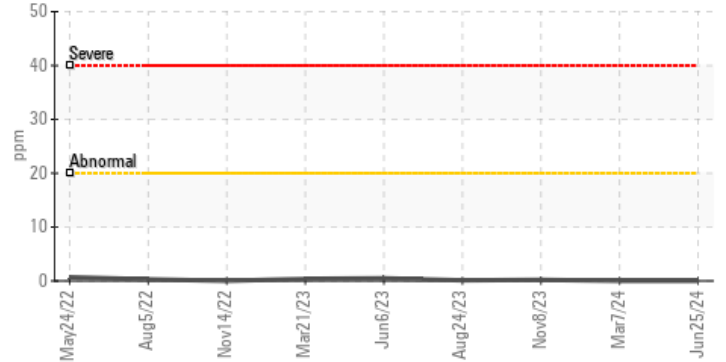
Lead (ppm)



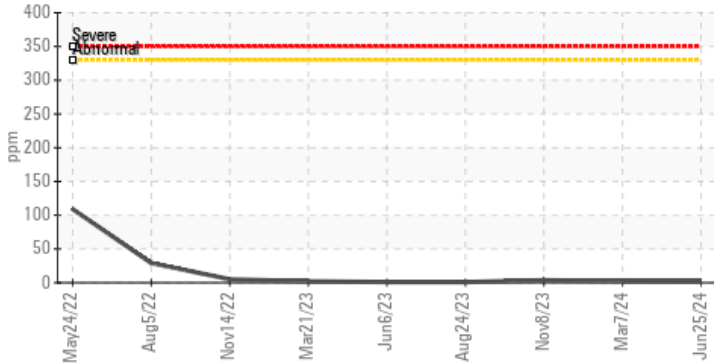
Aluminum (ppm)



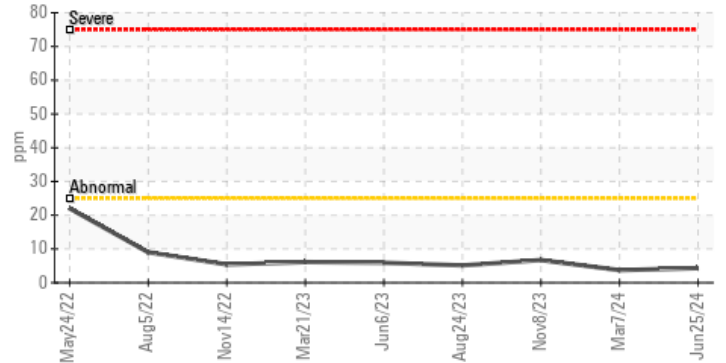
Chromium (ppm)



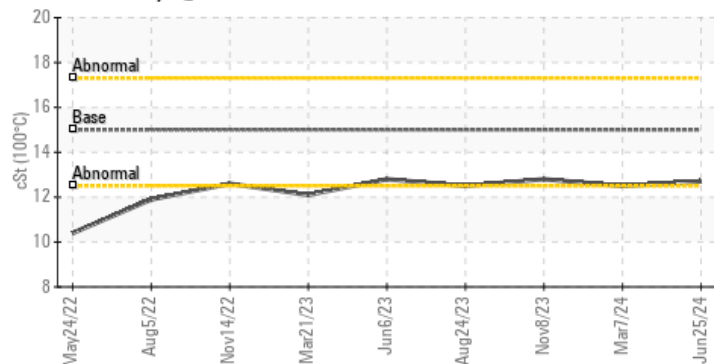
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

