



CONSTRUCTION EQUIPMENT

X49197 TADANO GR350XL-3 562248 - DIESEL ENGINE



Sample No: VCP408353
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X49197



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP408353 | VCP379154 | --- | --- |
| Sample Date | 25 Jun 2024 | 14 Jul 2022 | --- | --- |
| Machine Hours | 3992 | 2778 | --- | --- |
| Oil Hours | 3992 | 0 | --- | --- |
| Oil Changed | Changed | N/A | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 12.7 | █ 12.6 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.2 | █ 6.1 | --- | --- |
| Oxidation (PA) | % | 89 | 112 | --- | --- |

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 | --- | --- |
| Soot % | % | █ 0.2 | █ 0.3 | --- | --- |
| Nitration (PA) | % | 79 | 115 | --- | --- |
| Sulfation (PA) | % | 61 | 74 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | █ 15 | █ 18 | --- | --- |
| Sodium | ppm | █ 2 | █ 4 | --- | --- |
| Potassium | ppm | █ 2 | █ 0 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 18 | █ 63 | --- | --- |
| Copper | ppm | █ 4 | █ 82 | --- | --- |
| Lead | ppm | █ <1 | █ <1 | --- | --- |
| Tin | ppm | █ <1 | █ <1 | --- | --- |
| Aluminum | ppm | █ 10 | █ 14 | --- | --- |
| Chromium | ppm | █ 4 | █ 3 | --- | --- |
| Molybdenum | ppm | █ 41 | █ 44 | --- | --- |
| Nickel | ppm | █ <1 | █ <1 | --- | --- |
| Titanium | ppm | 3 | 0 | --- | --- |
| Silver | ppm | █ <1 | █ 0 | --- | --- |
| Manganese | ppm | █ 1 | 2 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 1726 | █ 1671 | --- | --- |
| Magnesium | ppm | █ 496 | █ 441 | --- | --- |
| Zinc | ppm | █ 1162 | █ 1059 | --- | --- |
| Phosphorus | ppm | █ 955 | 754 | --- | --- |
| Barium | ppm | █ 1 | █ 0 | --- | --- |
| Boron | ppm | █ 35 | █ 25 | --- | --- |

Depot: VOLVO6244
Unique No: 11101292
Signed: Wes Davis
Report Date: 28 Jun 2024

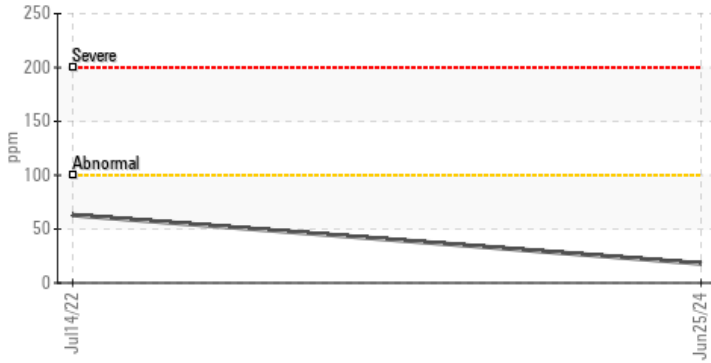


CONSTRUCTION EQUIPMENT

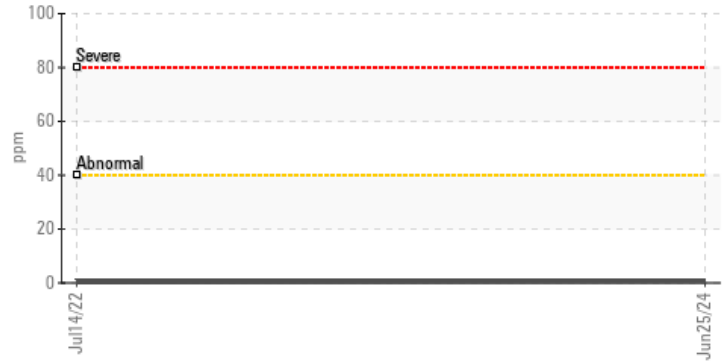


GRAPHS

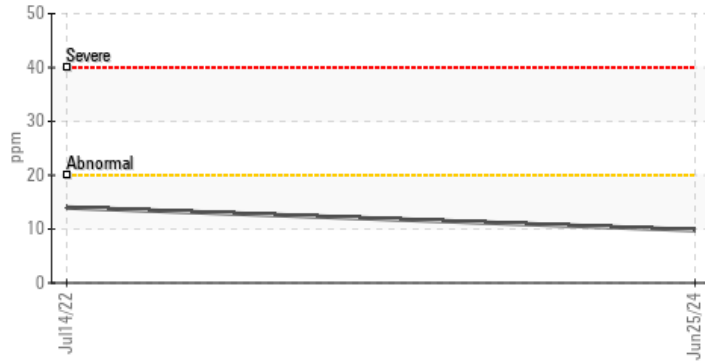
Iron (ppm)



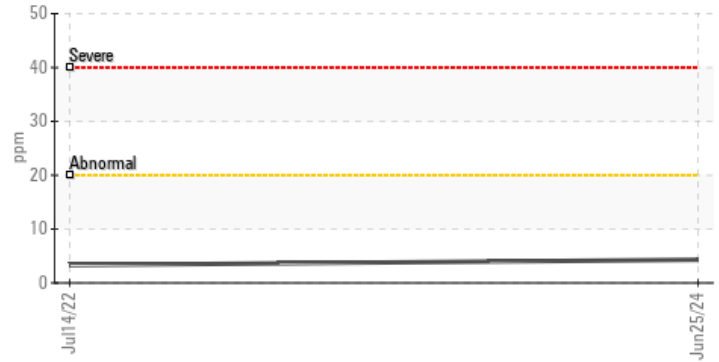
Lead (ppm)



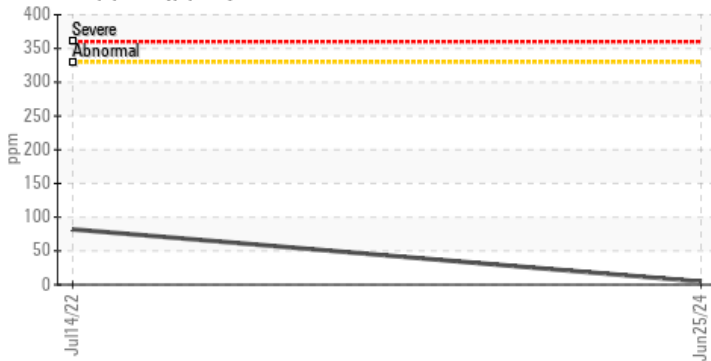
Aluminum (ppm)



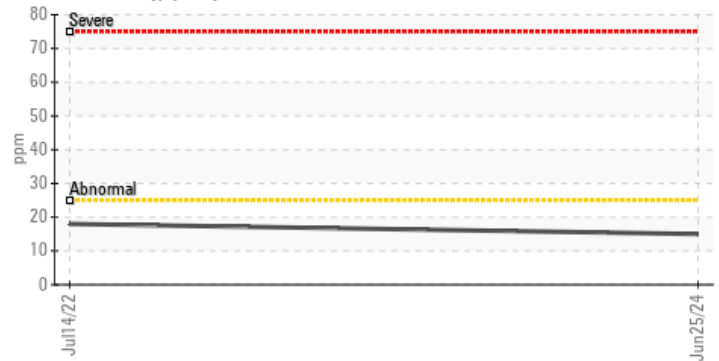
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

