



CONSTRUCTION EQUIPMENT

36772 VOLVO L180H 5567 - DIESEL ENGINE



Sample No: VCP391706
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 36772



SAMPLE INFORMATION

| Sample Number | VCP391706 | VCP381437 | VCP334161 | VCP335006 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 07 Jun 2023 | 16 Jan 2023 | 31 Aug 2022 | 13 May 2022 |
| Machine Hours | 2137 | 1684 | 1151 | 598 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Changed |
| Sample Status | NORMAL | NORMAL | ABNORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|----------------------|-------|--------|--------|--------|------|
| Visc @ 40°C | cSt | --- | --- | ▲ 40.5 | --- |
| Visc @ 100°C | cSt | ■ 12.7 | ■ 13.0 | ▲ 7.3 | 10.8 |
| Viscosity Index (VI) | Scale | --- | --- | ■ 146 | --- |
| Oxidation (PA) | % | 82 | 85 | 39 | 63 |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|------|-------|-------|
| Soot % | % | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Nitration (PA) | % | 56 | 61 | 26 | 80 |
| Sulfation (PA) | % | 62 | 67 | 57 | 60 |
| Glycol | % | NEG | NEG | NEG | ■ 0.0 |
| Fuel | % | ■ 1.2 | <1.0 | ■ 0.8 | ■ 0.5 |
| Silicon | ppm | ■ 4 | ■ 6 | ■ 13 | ■ 23 |
| Sodium | ppm | ■ 3 | ■ 2 | ■ 10 | ■ 2 |
| Potassium | ppm | ■ 0 | ■ 0 | ■ 2 | ■ 2 |

WEAR METALS

| | | | | | |
|------------|-----|------|------|-------|-------|
| Iron | ppm | ■ 5 | ■ 5 | ■ 140 | ■ 11 |
| Copper | ppm | ■ 9 | ■ 8 | ■ 1 | ■ 377 |
| Lead | ppm | ■ <1 | ■ <1 | ■ <1 | ■ 13 |
| Tin | ppm | ■ <1 | ■ <1 | ■ 0 | ■ 2 |
| Aluminum | ppm | ■ <1 | ■ 1 | ■ 1 | ■ 3 |
| Chromium | ppm | ■ <1 | ■ 0 | ■ 5 | ■ <1 |
| Molybdenum | ppm | ■ 40 | ■ 42 | ■ 7 | ■ 86 |
| Nickel | ppm | ■ <1 | ■ <1 | ■ <1 | ■ <1 |
| Titanium | ppm | <1 | <1 | <1 | 0 |
| Silver | ppm | ■ 0 | ■ 0 | 0 | <1 |
| Manganese | ppm | ■ <1 | ■ <1 | ■ 11 | ■ 4 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|--------|--------|------|--------|
| Calcium | ppm | ■ 1647 | ■ 1718 | 3975 | ■ 2215 |
| Magnesium | ppm | ■ 505 | ■ 503 | 12 | 30 |
| Zinc | ppm | ■ 1070 | ■ 1078 | 1551 | ■ 1203 |
| Phosphorus | ppm | ■ 961 | ■ 998 | 1360 | ■ 1072 |
| Barium | ppm | ■ 0 | ■ 0 | ■ 0 | ■ <1 |
| Boron | ppm | ■ 49 | ■ 46 | 112 | ■ 54 |

Diagnosis

Aucune mesure corrective n'est recommandée pour l'instant. 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. Légère dilution de carburant dans l'huile. Aucun autre contaminant n'a été détecté dans l'huile. L'état de l'huile est acceptable pour la durée de service.

Depot: STR520TRO
Unique No: 5602925
Signed: Kevin Marson
Report Date: 23 Jun 2023



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GRAPHS

