



CONSTRUCTION EQUIPMENT

W367049 IAA VOLVO L90H 625751 - DIESEL ENGINE



Sample No: VCP414573
Oil Type: MOBIL 1 TURBO DIESEL TRUCK 15W40
Job No: W367049 IAA



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP414573 | VCP400447 | VCP333143 | VCP314703 |
| Sample Date | 06 Sep 2023 | 03 Mar 2023 | 16 Jun 2022 | 19 Jan 2022 |
| Machine Hours | 2063 | 1556 | 1027 | 508 |
| Oil Hours | 0 | 500 | 500 | 500 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | ATTENTION |

367 - ASCENDUM MACHINERY INC - BUFORD
 3779 RYDER BLVD
 BUFORD, GA
 US 30519
 Contact: AARON MANDERS
 aaron.manders@ascendummachinery.com
 T:
 F: (678)318-9534



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 13.6 | 12.7 | 12.7 | 12.0 |
| Base Number (BN) | mg KOH/g | 8.8 | 10.2 | 10.4 | 11.0 |
| Oxidation (PA) | % | 71 | 80 | 80 | 76 |

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

| | | | | | |
|----------------|-----|----------------|------|------|-----|
| Soot % | % | 0.2 | 0.2 | 0.2 | 0.2 |
| Nitration (PA) | % | 75 | 61 | 61 | 60 |
| Sulfation (PA) | % | 55 | 61 | 61 | 62 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | 0.3 |
| Silicon | ppm | 6 | 8 | 8 | 14 |
| Sodium | ppm | 3 | <1 | 2 | 3 |
| Potassium | ppm | 0 | 0 | 0 | 1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 11 | 13 | 14 | 31 |
| Copper | ppm | 4 | 1 | 2 | 7 |
| Lead | ppm | 0 | 0 | <1 | 2 |
| Tin | ppm | <1 | <1 | 1 | 2 |
| Aluminum | ppm | <1 | 5 | 6 | 26 |
| Chromium | ppm | 1 | 1 | 2 | 4 |
| Molybdenum | ppm | 49 | 41 | 45 | 40 |
| Nickel | ppm | 0 | <1 | <1 | 0 |
| Titanium | ppm | 0 | <1 | <1 | <1 |
| Silver | ppm | 0 | 0 | 3 | <1 |
| Manganese | ppm | <1 | <1 | 1 | 4 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1458 | 1657 | 1676 | 1368 |
| Magnesium | ppm | 809 | 494 | 525 | 567 |
| Zinc | ppm | 1023 | 1066 | 1080 | 1036 |
| Phosphorus | ppm | 826 | 876 | 896 | 889 |
| Barium | ppm | 0 | 0 | 0 | <1 |
| Boron | ppm | 26 | 32 | 52 | 47 |

Depot: VOLVO8529
Unique No: 10645892
Signed: Wes Davis
Report Date: 15 Sep 2023



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GRAPHS

