



CONSTRUCTION EQUIPMENT

S50403934 VOLVO L90H 625515 - DIESEL ENGINE



Sample No: VCP455415
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: S50403934



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP455415 | VCP435904 | VCP397904 | VCP372624 |
| Sample Date | 26 Jun 2024 | 13 Dec 2023 | 05 Jun 2023 | 08 Jul 2022 |
| Machine Hours | 6470 | 5500 | 4521 | 3017 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

IAA - INSURANCE AUTO AUCTIONS - RICHIE BROS
 2 WESTBROOK CORPORATE CTR STE 500
 WESTCHESTER, IL
 US 60154
 Contact: BILLY BUTLER

OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.7 | 13.3 | 13.3 | 13.8 |
| Base Number (BN) | mg KOH/g | 10.5 | 10.6 | 10.2 | 11.4 |
| Oxidation (PA) | % | 80 | 83 | 79 | 87 |

T: (404)275-6868
 F:

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 % | % | 0.1 | 0.6 | 0.6 | 0.7 |
| Nitration (PA) | % | 50 | 59 | 60 | 64 |
| Sulfation (PA) | % | 60 | 63 | 60 | 66 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 4 | 6 | 5 | 5 |
| Sodium | ppm | <1 | 2 | 3 | 2 |
| Potassium | ppm | 2 | <1 | <1 | 0 |

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 4 | 5 | 7 | 11 |
| Copper | ppm | <1 | <1 | <1 | <1 |
| Lead | ppm | <1 | 1 | 0 | <1 |
| Tin | ppm | <1 | 0 | 0 | <1 |
| Aluminum | ppm | 3 | 5 | 4 | 5 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 40 | 43 | 43 | 41 |
| Nickel | ppm | <1 | 0 | 0 | 0 |
| Titanium | ppm | <1 | 0 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | <1 | <1 | <1 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 1656 | 1711 | 1826 | 1766 |
| Magnesium | ppm | 489 | 538 | 530 | 521 |
| Zinc | ppm | 1116 | 1216 | 1163 | 1134 |
| Phosphorus | ppm | 965 | 975 | 958 | 946 |
| Barium | ppm | <1 | 0 | 0 | 0 |
| Boron | ppm | 56 | 45 | 47 | 40 |

Depot: INSWES
Unique No: 11127781
Signed: Wes Davis
Report Date: 18 Jul 2024

VOLVO GRAPHS

