



CONSTRUCTION EQUIPMENT

A11895 IAA NEW CASTL VOLVO L90G 617343 - DIESEL ENGINE



Sample No: VCP430929
Oil Type: MOBIL 15W40
Job No: A11895 IAA NEW CASTL



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP430929 | VCP411846 | VCP406484 | VCP373472 |
| Sample Date | 17 Jan 2024 | 28 Jul 2023 | 31 Mar 2023 | 24 Jun 2022 |
| Machine Hours | 12480 | 12075 | 11715 | 10869 |
| Oil Hours | 500 | 500 | 500 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

HOFFMAN EQUIPMENT - LIONVILLE
120 GORDON DRIVE
LIONVILLE, PA
US 19341
Contact: JIM FEHR
jim.fehr@hoffmanequip.com
T: (610)363-9200
F: (610)594-0829



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 13.3 | 13.3 | 13.5 | 12.6 |
| Base Number (BN) | mg KOH/g | 7.2 | 7.9 | 6.7 | 10.2 |
| Oxidation (PA) | % | 46 | 52 | 76 | 81 |

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 % | % | 0.2 | 0.2 | 0.4 | 0.4 |
| Nitration (PA) | % | 61 | 58 | 80 | 78 |
| Sulfation (PA) | % | 48 | 50 | 64 | 59 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 6 | 8 | 5 | 7 |
| Sodium | ppm | 2 | 1 | 3 | 3 |
| Potassium | ppm | 2 | 2 | 4 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 10 | 8 | 11 | 12 |
| Copper | ppm | 1 | <1 | 0 | <1 |
| Lead | ppm | <1 | 0 | 0 | <1 |
| Tin | ppm | <1 | <1 | 0 | <1 |
| Aluminum | ppm | 5 | 4 | 6 | 8 |
| Chromium | ppm | 1 | <1 | 0 | <1 |
| Molybdenum | ppm | 33 | 21 | 12 | 45 |
| Nickel | ppm | 1 | 0 | 0 | <1 |
| Titanium | ppm | <1 | <1 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | 1 | <1 | <1 | <1 |
| Vanadium | ppm | <1 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1595 | 2152 | 2082 | 1654 |
| Magnesium | ppm | 388 | 241 | 125 | 494 |
| Zinc | ppm | 1019 | 1192 | 1071 | 1110 |
| Phosphorus | ppm | 827 | 939 | 898 | 894 |
| Barium | ppm | 1 | 0 | 0 | 0 |
| Boron | ppm | 12 | 27 | 78 | 47 |

Depot: VOLVO8879
Unique No: 10900917
Signed: Wes Davis
Report Date: 29 Feb 2024



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VOLVO GRAPHS

