



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L180H 3090 - DIESEL ENGINE



Sample No: VCP406606
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP406606 | VCP398053 | VCP371214 | VCP402493 |
| Sample Date | 22 Jan 2024 | 29 Nov 2023 | 06 Oct 2023 | 19 Apr 2023 |
| Machine Hours | 21249 | 20392 | 19907 | 19441 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | N/A |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

ARNOLD MACHINERY COMPANY
 464 WASHINGTON STREET S
 TWIN FALLS, ID
 US 83301
 Contact: JANA E HYMAS
 jhymas@arnoldmachinery.com
 T: (208)733-1715
 F: (775)356-7152



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.6 | 13.0 | 13.1 | 12.7 |
| Base Number (BN) | mg KOH/g | 9.2 | 9.8 | 9.5 | 9.0 |
| Oxidation (PA) | % | 57 | 56 | 57 | 59 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.2 | 0.1 | 0.3 | 0.2 |
| Nitration (PA) | % | 58 | 48 | 52 | 55 |
| Sulfation (PA) | % | 51 | 51 | 52 | 52 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 3 | 5 | 2 | 3 |
| Sodium | ppm | 1 | 4 | <1 | 1 |
| Potassium | ppm | <1 | 17 | 0 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 1 | 48 | 2 | 2 |
| Copper | ppm | <1 | 6 | <1 | 0 |
| Lead | ppm | 2 | 0 | <1 | 0 |
| Tin | ppm | <1 | <1 | 0 | 0 |
| Aluminum | ppm | 2 | 17 | <1 | 1 |
| Chromium | ppm | <1 | 2 | 0 | 0 |
| Molybdenum | ppm | 66 | 63 | 61 | 68 |
| Nickel | ppm | <1 | 0 | 0 | 0 |
| Titanium | ppm | <1 | <1 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | 1 | 0 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1035 | 1136 | 1103 | 1199 |
| Magnesium | ppm | 878 | 908 | 937 | 931 |
| Zinc | ppm | 1156 | 1230 | 1255 | 1255 |
| Phosphorus | ppm | 989 | 1019 | 1035 | 1010 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 8 | 5 | 6 | 15 |

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.

Depot: VOLVO1835
Unique No: 10859444
Signed: Wes Davis
Report Date: 02 Feb 2024



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VOLVO GRAPHS

