



CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-381492 VOLVO L90H 625990 - DIESEL ENGINE



Sample No: VCP353278
Oil Type: DIESEL ENGINE OIL SAE 30
Job No: 8-381492



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP353278 | VCP392281 | VCP381745 | VCP352943 |
| Sample Date | 31 Oct 2023 | 26 Jun 2023 | 21 Mar 2023 | 09 Nov 2022 |
| Machine Hours | 2627 | 2012 | 1533 | 1003 |
| Oil Hours | 0 | 2000 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
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OIL CONDITION

| | | | | | |
|----------------|-----|-------------|------|------|------|
| Visc @ 100°C | cSt | 13.4 | 12.9 | 13.0 | 13.3 |
| Oxidation (PA) | % | 84 | 84 | 85 | 84 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Soot % | % | 0.3 | 0.2 | 0 | 0 |
| Nitration (PA) | % | 65 | 59 | 65 | 62 |
| Sulfation (PA) | % | 63 | 63 | 71 | 66 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 6 | 5 | 7 | 9 |
| Sodium | ppm | 3 | 3 | 2 | 3 |
| Potassium | ppm | 0 | 0 | 0 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 91 | 68 | 68 | 66 |
| Copper | ppm | <1 | <1 | 1 | 2 |
| Lead | ppm | <1 | 0 | 0 | <1 |
| Tin | ppm | <1 | <1 | <1 | 1 |
| Aluminum | ppm | 3 | 3 | 4 | 6 |
| Chromium | ppm | 2 | 2 | 2 | 2 |
| Molybdenum | ppm | 40 | 39 | 40 | 40 |
| Nickel | ppm | <1 | 0 | 0 | <1 |
| Titanium | ppm | 0 | 0 | <1 | <1 |
| Silver | ppm | <1 | 0 | 0 | 0 |
| Manganese | ppm | 1 | 1 | 1 | 2 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 1716 | 1697 | 1834 | 1727 |
| Magnesium | ppm | 508 | 502 | 501 | 520 |
| Zinc | ppm | 1099 | 1077 | 1097 | 1097 |
| Phosphorus | ppm | 937 | 956 | 1024 | 994 |
| Barium | ppm | <1 | <1 | <1 | <1 |
| Boron | ppm | 25 | 38 | 43 | 39 |

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. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: SHEMIS
Unique No: 5671972
Signed: Kevin Marson
Report Date: 08 Nov 2023



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GRAPHS

