



CONSTRUCTION EQUIPMENT

SPM567082 VOLVO L120H 632941 - REAR AXLE



Sample No: VCP423166
Oil Type: GEAR OIL SAE 80W90
Job No: SPM567082



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP423166 | VCP423193 | VCP364808 | VCP358497 |
| Sample Date | 21 Jun 2023 | 21 Jun 2023 | 14 Sep 2022 | 05 Apr 2022 |
| Machine Hours | 2611 | 2611 | 2013 | 1182 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Changed | Not Chngd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 43.0 | 40.9 | 40.0 | 40.0 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| | | | | | |
|-----------|-----|-----------|---|----|----|
| Silicon | ppm | 16 | 9 | 22 | 18 |
| Sodium | ppm | 4 | 3 | 11 | 13 |
| Potassium | ppm | 0 | 0 | 2 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-----|
| Iron | ppm | 128 | 33 | 463 | 383 |
| Copper | ppm | <1 | <1 | 1 | 1 |
| Lead | ppm | 0 | 0 | <1 | <1 |
| Tin | ppm | 0 | 0 | 0 | <1 |
| Aluminum | ppm | 2 | <1 | 3 | 2 |
| Chromium | ppm | 3 | <1 | 9 | 8 |
| Molybdenum | ppm | 3 | <1 | 14 | 14 |
| Nickel | ppm | <1 | 0 | 0 | 1 |
| Titanium | ppm | <1 | <1 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | 4 | <1 | 16 | 13 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 3784 | 3057 | 4421 | 4840 |
| Magnesium | ppm | 25 | 13 | 14 | 18 |
| Zinc | ppm | 1532 | 1363 | 1796 | 1703 |
| Phosphorus | ppm | 1212 | 1123 | 1494 | 1638 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 162 | 47 | 138 | 144 |

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. Confirm oil type. The condition of the oil is acceptable for the time in service.

Depot: VOLVO8885
Unique No: 10548905
Signed: Don Baldrige
Report Date: 11 Jul 2023



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VOLVO GRAPHS

