



CONSTRUCTION EQUIPMENT

9432 VOLVO L220H 3434 - DIESEL ENGINE



Sample No: VCP413947
Oil Type: CHEVRON 15W40
Job No: 9432



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP413947 | VCP416664 | VCP371311 | --- |
| Sample Date | 03 Aug 2023 | 18 May 2023 | 10 Jan 2023 | --- |
| Machine Hours | 3085 | 2358 | 1060 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | NORMAL | NORMAL | ABNORMAL | --- |



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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C | cSt | 13.0 | 12.8 | 13.1 | --- |
| Base Number (BN) | mg KOH/g | 6.3 | 5.3 | 6.1 | --- |
| Oxidation (PA) | % | 63 | 75 | 45 | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|-----|
| Soot % | % | 0.2 | 0.3 | 0.1 | --- |
| Nitration (PA) | % | 61 | 69 | 60 | --- |
| Sulfation (PA) | % | 60 | 68 | 53 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | <1.0 | --- |
| Silicon | ppm | 9 | 14 | 8 | --- |
| Sodium | ppm | <1 | 4 | <1 | --- |
| Potassium | ppm | 3 | 3 | 2 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-----|
| Iron | ppm | 7 | 14 | 6 | --- |
| Copper | ppm | 4 | 39 | 256 | --- |
| Lead | ppm | 0 | <1 | 0 | --- |
| Tin | ppm | <1 | 1 | <1 | --- |
| Aluminum | ppm | 1 | 0 | 0 | --- |
| Chromium | ppm | <1 | 0 | 0 | --- |
| Molybdenum | ppm | 79 | 82 | 13 | --- |
| Nickel | ppm | <1 | <1 | 0 | --- |
| Titanium | ppm | <1 | 2 | 0 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | <1 | <1 | <1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 1274 | 1710 | 2413 | --- |
| Magnesium | ppm | 381 | 442 | 36 | --- |
| Zinc | ppm | 1193 | 1211 | 1098 | --- |
| Phosphorus | ppm | 935 | 902 | 914 | --- |
| Barium | ppm | 0 | 0 | 1 | --- |
| Boron | ppm | 249 | 142 | 5 | --- |

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: RECHYA
Unique No: 10588455
Signed: Don Baldrige
Report Date: 07 Aug 2023



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GRAPHS

