



CONSTRUCTION EQUIPMENT

ZEFCO VOLVO EC160EL 310083 - DIESEL ENGINE



Sample No: VCP420491
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: ZEFCO



216 - ASCENDUM MACHINERY INC - PIEDMONT
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SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP420491 | --- | --- | --- |
| Sample Date | 04 Oct 2023 | --- | --- | --- |
| Machine Hours | 4031 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |



OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.7 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.0 | --- | --- | --- |
| Oxidation (PA) | % | 45 | --- | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | █ 0.3 | --- | --- | --- |
| Nitration (PA) | % | 65 | --- | --- | --- |
| Sulfation (PA) | % | 48 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 8 | --- | --- | --- |
| Sodium | ppm | █ 4 | --- | --- | --- |
| Potassium | ppm | █ <1 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 74 | --- | --- | --- |
| Copper | ppm | █ 4 | --- | --- | --- |
| Lead | ppm | █ <1 | --- | --- | --- |
| Tin | ppm | █ <1 | --- | --- | --- |
| Aluminum | ppm | ▲ 21 | --- | --- | --- |
| Chromium | ppm | █ 4 | --- | --- | --- |
| Molybdenum | ppm | █ 22 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | █ <1 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ <1 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 2001 | --- | --- | --- |
| Magnesium | ppm | █ 142 | --- | --- | --- |
| Zinc | ppm | █ 1069 | --- | --- | --- |
| Phosphorus | ppm | █ 901 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 21 | --- | --- | --- |

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 acceptable for the time in service.

Depot: VOLVO4596
Unique No: 10696501
Signed: Don Baldrige
Report Date: 17 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

