



CONSTRUCTION EQUIPMENT

SW0063496 VOLVO A45G 352798 - DROP BOX



Sample No: VCP421504
Oil Type: COWIN 80W90
Job No: SWO063496



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP421504 | VCP353992 | VCP346456 | --- |
| Sample Date | 27 Jun 2023 | 01 Nov 2022 | 21 Jan 2022 | --- |
| Machine Hours | 3031 | 2087 | 988 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | NORMAL | NORMAL | ATTENTION | --- |

COWIN EQUIPMENT COMPANY

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|------|-----|
| Visc @ 40°C | cSt | 138 | 128 | 50.4 | --- |
|-------------|-----|------------|-----|------|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|---|---|-----|
| Silicon | ppm | 1 | 3 | 4 | --- |
| Sodium | ppm | 0 | 0 | 0 | --- |
| Potassium | ppm | <1 | 2 | 5 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 46 | 123 | 191 | --- |
| Copper | ppm | <1 | <1 | 11 | --- |
| Lead | ppm | 0 | 0 | <1 | --- |
| Tin | ppm | 0 | 0 | 0 | --- |
| Aluminum | ppm | <1 | 0 | 2 | --- |
| Chromium | ppm | <1 | 2 | 3 | --- |
| Molybdenum | ppm | 4 | 6 | 5 | --- |
| Nickel | ppm | 0 | 0 | <1 | --- |
| Titanium | ppm | 0 | 0 | 0 | --- |
| Silver | ppm | 0 | 0 | <1 | --- |
| Manganese | ppm | 2 | 6 | 13 | --- |
| Vanadium | ppm | 0 | 0 | <1 | --- |



ADDITIVES

| | | | | | |
|------------|-----|------------|------|------|-----|
| Calcium | ppm | 54 | 57 | 114 | --- |
| Magnesium | ppm | 21 | 19 | <1 | --- |
| Zinc | ppm | 35 | 44 | 43 | --- |
| Phosphorus | ppm | 984 | 1070 | 2368 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 163 | 185 | 250 | --- |

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 condition of the oil is acceptable for the time in service.

Depot: VOLVO8247

Unique No: 10563003

Signed: Wes Davis

Report Date: 19 Jul 2023



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GRAPHS

