



# CONSTRUCTION EQUIPMENT

64269 SHARED SVC GROVE RT880 236850 - TRANSMISSION (MANUAL)



**Sample No:** VCP413028  
**Oil Type:** TDTO FLUID SAE 20  
**Job No:** 64269 SHARED SVC



## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP413028   | --- | --- | --- |
| Sample Date   | 26 Jul 2023 | --- | --- | --- |
| Machine Hours | 2245        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | SEVERE      | --- | --- | --- |

**COWIN EQUIPMENT COMPANY INC - GUNTERSVILLE**  
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## OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 54.7 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



## CONTAMINATION

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Silicon   | ppm | ■ 7 | --- | --- | --- |
| Sodium    | ppm | ■ 3 | --- | --- | --- |
| Potassium | ppm | ■ 2 | --- | --- | --- |

## Diagnosis

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Moderate concentration of visible metal present. Clutch wear is indicated. There is no indication of any contamination in the fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.



## WEAR METALS

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Iron       | ppm | ■ 5   | --- | --- | --- |
| Copper     | ppm | ■ 39  | --- | --- | --- |
| Lead       | ppm | ● 156 | --- | --- | --- |
| Tin        | ppm | ■ <1  | --- | --- | --- |
| Aluminum   | ppm | ■ <1  | --- | --- | --- |
| Chromium   | ppm | ■ <1  | --- | --- | --- |
| Molybdenum | ppm | ■ 2   | --- | --- | --- |
| Nickel     | ppm | ■ 0   | --- | --- | --- |
| Titanium   | ppm | <1    | --- | --- | --- |
| Silver     | ppm | ■ <1  | --- | --- | --- |
| Manganese  | ppm | ■ <1  | --- | --- | --- |
| Vanadium   | ppm | 0     | --- | --- | --- |



## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ■ 3324 | --- | --- | --- |
| Magnesium  | ppm | ■ 27   | --- | --- | --- |
| Zinc       | ppm | ■ 1339 | --- | --- | --- |
| Phosphorus | ppm | ■ 1150 | --- | --- | --- |
| Barium     | ppm | ■ 0    | --- | --- | --- |
| Boron      | ppm | ■ 51   | --- | --- | --- |

**Depot:** COWMAD  
**Unique No:** 10585711  
**Signed:** Jonathan Hester  
**Report Date:** 04 Aug 2023



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## GRAPHS

