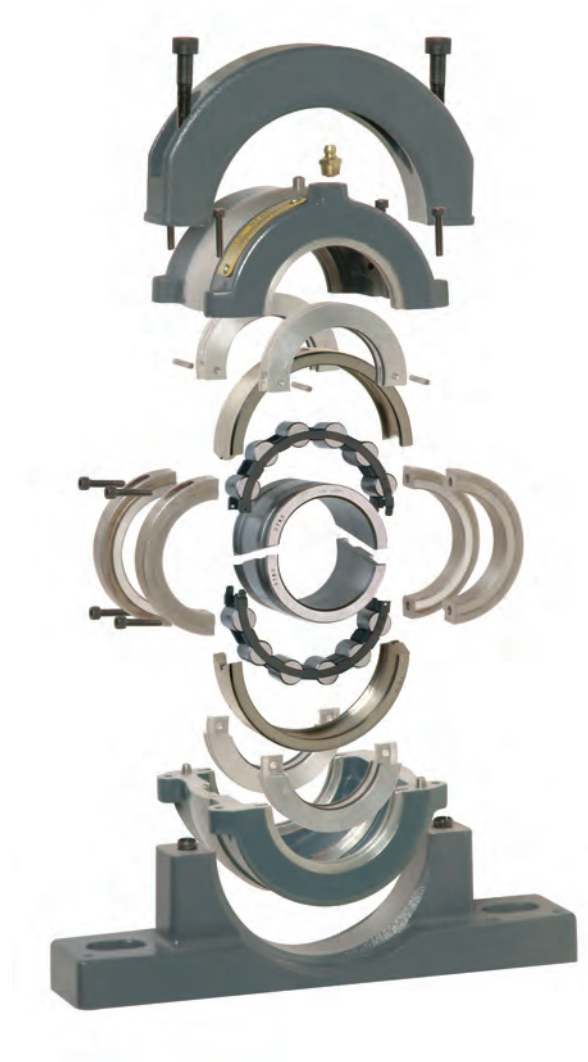




COOPER

Application Fact Sheet - Conveying



RMC Chalk Conveyor

Cooper Chalk Up Another Success

The Application Problem

Critical to the chalk quarrying operation at RMC Rugby, Kensworth Quarry is the recycled material conveyor. The inclined conveyor which is an integral component of site conveying system, has the tail drum situated in a pit.

Due to the pit location, water tended to collect in this area and entered the tail drum bearings. As a result, the SNL 515 - 612 bearing fitted to the 100mm shaft failed every 2 to 3 months causing problems for both operations and maintenance staff.

If the recycled material conveyor is stopped for any reason, the productivity of entire site is affected, which has a negative impact on the Kensworth site production.



The Cooper Split Solution

To rectify the problem, Cooper recommended a BCP 100mm GR (fixed) and EX (expansion) bearings for the tail drum application.

The water penetration problem was solved by using the a Cooper SRS seal which is suitable for wet but not submerged applications. The SRS seal is available in high and low temperature versions (-20°C to 100°C).

RMC Rugby Kensworth lubricate the bearings to Cooper specifications which has resulted in the Cooper bearings providing continuous operation for over a year (at time of printing) with no problems.

The Cooper hallmark split to the shaft feature permits inspection and maintenance to be carried out at the shortest possible time. The Cooper solution has solved an operational problem and reduced maintenance and inspection time, which makes a positive contribution to profitability.



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