

Industry: Earth Moving
End User: Bob Hick Earthmoving – New Zealand
Application: Cat 615 Motor Scraper Elevator
Thordon Grade: ThorPlas-Blue
Date of Original Installation: July 2016

Challenge

Engineers at Bob Hick Earthmoving - New Zealand were having trouble with the existing steel bearings in the support brackets on the elevator lift lasting.



Caterpillar 615-C Motor Scraper



Elevator Support and Existing Steel Bearings

Solution

The Thordon Engineers at Pacific Driveline suggested using ThorPlas-Blue as the bearing material. Since the pin was hardened steel, it was prone to corrosion and would still need to be greased..



*ThorPlas-Blue
Replacement Bearings*



Old Steel Bearings



*ThorPlas
installed with O-rings*

Results

The ThorPlas-Blue bearings were installed into the elevator support arms and greased to prevent corrosion of the pin. Grease exposed to dirt becomes a grinding paste and accelerates wear of the pin and bearing. To prevent this happening yellow and black O-rings have been installed at the joints (see photo above) to keep the grease in, under a little pressure, and keep the dirt out. The expectation is for many years of service.