

CATERPILLAR 615-C MOTOR SCRAPER BEARINGS

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. Because the pin was hardened steel and therefore prone to corrosion grease would still be needed.



ThorPlas Blue replacement bearings



Old Steel Bearings



ThorPlas installed with O rings

Outcome

The ThorPlas 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 the dirt out. The expectation is for many years of service.