

Case Study: Job Planning Large Gearbox Repair

Scenario

- A large gearbox developed a leak on the output shaft
- The output shaft has a groove worn into the surface from years of seal wear
- The gearbox is V-belt driven by a 200 HP electric motor
- The output shaft diameter is five inches (5") with a press fit double #120 sprocket
- The gearbox holds 15 gallons of gear oil and has an oil-circulating pump
- The gearbox is relatively easy to access from all sides
- There is a 10-ton bridge crane overhead
- Operations will provide the machine at 6:00 a.m. and require to the job be completed by 11:00 a.m.