

# PETERSON

MACHINE & SUPPLY INC.



## PROJECT OVERVIEW

### GREY LIGHTNING

We received the Grey Lightning gearbox for rebuild. The gearbox was disassembled and inspected here at our facility.

Upon disassembly and careful quality control inspection of the gearbox, the following faults were found:

- Crown and pinion gears damaged, the gears are obsolete and now unavailable from the manufacturer
- Seal fit on output shaft damaged
- Input bearing housing fit outside of allowable tolerance





All the bearing and seal fits in the gearbox are restored to OEM specifications.

The required gears are fabricated to the original manufacturer's specification.

New bearings are installed on their respective shafts, then shaft assemblies are installed into the main housing.

The last step is to double check the pinion to crown gear clearances, and the clearances in the bearings.

Final assembly of the gearbox is then completed, with a final check of all tolerances to make sure all are within the OEM specification.

A final coat of touch up paint is applied and the gearbox is ready for final crating and shipping to the customer.



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[Contact us for a more detailed version of this project.](#)