

## CAT 3600/C280 TURBO REBUILD SERVICE

Resource  
Power Group

RPG

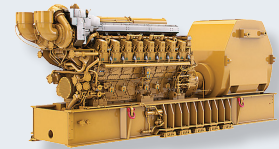
### Why choose RPG over your local turbo repair shop?

A repair from RPG guarantees your turbo is repaired to run at peak performance. Often after customers choose a “fly ash and balance” or “clean and balance” repair, the turbo does not run to factory specifications.

Poor turbo performance can result in poor engine performance, causing:

- High exhaust temperatures
- High fuel consumption
- Emissions out of specification
- Loss of power

Customers who choose to overhaul their 3600 or C280 series engines expect a high-quality repair. However, often the repair contractor outsources the turbo overhaul. Consider having your Napier, ABB, KBB or MET turbo repaired directly by RPG, a world leader in large bore marine and petroleum engine sales and service.



### A Proven Process of Success

A Shop Evaluation Report is completed for every repair. This includes:

1. Photos before and after reconditioning and reassembly of every major component
2. Key component serial numbers
3. Type, specification, location (if provided), and hours (if provided)
4. Complete list of measurements before and after
5. Summary of wear on surfaces
6. Recommendations to restore turbocharger to peak performance
7. Quotation for cost of recommended repair

Once a repair has been performed by RPG, the work order history is saved for future reference. Most turbochargers have a life of 2 or 3 repairs plus 4 to 6 overhauls. The history of the repair for each turbo can help us to advise you of your most cost-effective option leading to best engine performance.



## Resource Power Group – RPG Turbo Repair Program Options

Standard Overhaul Program – The customer sends the complete turbocharger to an RPG shop for overhaul or repair. The scope of the work below is our “Standard Overhaul.” A “Standard Overhaul” does not include the replacement of any components. The customer pays for the overhaul and receives a Shop Evaluation Report and quotation for additional work if recommended.

### Turbocharger Types and Scope of Repair

- Napier • ABB • KBB • MET “Mitsubishi”

  1. Measure the initial clearances
  2. Dismantle the turbocharger and remove the cartridge
  3. Clean and inspect each turbocharger component
  4. Perform hardness test of compressor wheel
  5. Perform crack test of shaft and turbine blades
  6. Static/coupling balance of bladed shaft
  7. Dynamic balance of rotor assembly
  8. Assemble turbochargers with new OEM maintenance kit
  9. Final measurements of clearances
  10. Provide the Service and Balance Report to the customer

### Standard Overhaul Process

- Overhaul scheduled – estimate approved – parts are confirmed in stock
- Turbo shipped to RPG (we can arrange for all transport/handling costs at +10%)
- RPG performs scope of work at left
- If we find need for additional work, our quote is updated to include “out of scope” recommendations. Out of scope could include: renewal or repair of major components such as compressor wheel, turbine blades, impeller, diffuser, shafts, and/or bearing house, etc.
- Turbo is returned and invoiced as approved per quote or revised quote. Final evaluation completed, service & balance report is e-mailed
- In some cases an exchange turbo is also available

### About RPG

Resource Power Group (RPG) is the trade name for Louisiana Machinery Company LLC’s large, medium speed engine business. The company was established in 1933 and is a privately-owned business approaching \$1 Billion in annual revenues. RPG is an authorized distributor for EMD and MaK engines, for Mitsubishi and Napier turbochargers, and for Heinzmann and Regulateurs Europa governors and Noris controls.

RPG, with offices in Houston, Miami, New Orleans, Ciudad del Carmen (Mexico), and Panama City (Panama), focuses on power, marine, gas compression, and industrial applications in the “Middle Americas” including the Southern US, Mexico, Central America, the Northern part of South America and the Caribbean islands.



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