

drain tube.

- e. If Steps a through e did not reveal the source of the oil leakage, the turbocharger has internal damage. Replace the turbocharger.

Inspection of the Turbine Wheel and the Turbine Housing

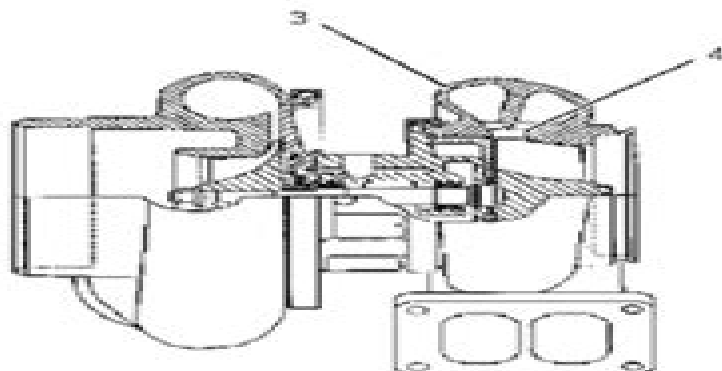


Illustration 2

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Typical example of a turbocharger.

(3) Turbine housing

(4) Turbine wheel

1. Remove the air piping from the turbine housing.
2. Inspect turbine wheel (4) for damage by a foreign object. If there is damage, determine the source of the foreign object. Replace the turbocharger. If there is no damage, go to the next Step.
3. Clean turbine wheel (4) and turbine housing (3) if you find buildup of carbon or foreign material. If there is no buildup of carbon or foreign material, go to the next Step.
4. Turn the rotating assembly by hand. While you turn the assembly, push the assembly sideways. The assembly should turn freely. Turbine wheel (4) should not rub turbine housing (3). Replace the turbocharger if the turbine wheel rubs the turbine housing. If there is no rubbing or scraping, go to the next Step.
5. Inspect turbine wheel (4) and turbine housing (3) for oil leakage and oil coking. Some oil coking may be cleaned. Heavy oil coking may require replacement of the turbocharger. If the oil is coming from the turbocharger center housing go to the next Steps.
 - a. Remove the oil drain tube. Inspect the oil drain hole and the oil drain tube for oil sludge. Inspect the area between the bearings of the rotating assembly shaft. If necessary, clean the rotating assembly shaft, the oil drain hole, and the oil drain tube.
 - b. If crankcase pressure is high, or if the oil drain is restricted, pressure in the center housing may be greater than the pressure of turbine housing (3). Oil flow may be forced in the wrong direction and the oil may not drain. Check the crankcase pressure and correct any problems.
 - c. If the oil drain tube is damaged, replace the oil drain tube.
 - d. Check the routing of the oil drain tube. Eliminate any sharp restrictive bends. Make sure that the oil drain tube is not too close to the engine exhaust manifold.
 - e. If Steps a through e did not reveal the source of the oil leakage, the turbocharger has internal damage. Replace the turbocharger.

Inspection of the Wastegate (If Equipped)

Cat 3046 Engine Repair Manual

S Ashworth



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Table of Contents Cat 3046 Engine Repair Manual

1. Understanding the eBook Cat 3046 Engine Repair Manual
 - The Rise of Digital Reading Cat 3046 Engine Repair Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Cat 3046 Engine Repair Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cat 3046 Engine Repair Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cat 3046 Engine Repair Manual
 - Personalized Recommendations
 - Cat 3046 Engine Repair Manual User Reviews and Ratings

- Cat 3046 Engine Repair Manual and Bestseller Lists
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 - Cat 3046 Engine Repair Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cat 3046 Engine Repair Manual
 - Highlighting and Note-Taking Cat 3046 Engine Repair Manual
 - Interactive Elements Cat 3046 Engine Repair Manual
- 8. Staying Engaged with Cat 3046 Engine Repair Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cat 3046 Engine Repair Manual
- 9. Balancing eBooks and Physical Books Cat 3046 Engine Repair Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cat 3046 Engine Repair Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Cat 3046 Engine Repair Manual
 - Setting Reading Goals Cat 3046 Engine Repair Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cat 3046 Engine Repair Manual
 - Fact-Checking eBook Content of Cat 3046 Engine Repair Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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