

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

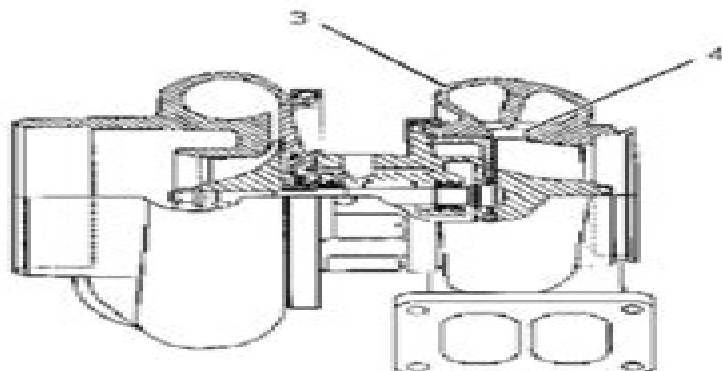


Illustration 2

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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)

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