

Bulletin: 2006-004 USA

Subject: RXV/SXV 450/550-- Oil overflowing from airbox/gearbox becoming overfilled

Date: October 2, 2006

In specific cases investigated by Piaggio USA, the oil seal fitted to the external housing of the oil pump has shown to be defective/improperly installed. If the oil pump seal fails, engine oil will leak into the gearbox cavity, causing the gearbox to be overfilled. This oil mixture then overflows through the gearbox vent hose and into the air box. Due to the sophisticated dry-sump oiling system, it is imperative that the engine oil reservoir and gearbox have been correctly filled. A thorough understanding of the fluid capacity and level checking procedure is essential. This knowledge will prevent undue time and effort searching for an oil system problem, which is non-existent. When it is certain the engine and gearbox oil levels are correct and excessive oil overflows from the air box, proceed as follows:

- 1) [Remove right side clutch cover](#)
- 2) [Remove oil pump gear](#)
- 3) [Inspect oil pump cover seal](#)- Replace if necessary. *A few examples of the SXV 550 have had faulty oil pump seals. As a precautionary measure, examine other seals noted below.*
- 4) [Reinstall Clutch cover](#)
- 5) [Adjust engine oil and gearbox oil levels to specification](#)
- 6) [Test Unit](#)

Pay attention to the following seals:

Oil pump seal #12 (Most importantly)

