

**JOMO**

**TRIUMPH**

**ARIEL**

# SERVICE NOTES

**BULLETIN**

8-58

**JOHNSON MOTORS, INC.**

**PASADENA, CALIFORNIA**

## ARIEL 650 cc TWIN OIL SUMP LOADING

There are two anti-syphon ball checks built into the Ariel Cyclone and Huntmaster engines to prevent oil seeping through the gear type oil pump into the sump while setting. Excess oil in the sump could be caused by foreign particles under either ball seat.

First check the most accessible ball check, which is exposed by removing the bottom sump plate. The ball is enclosed in the end of the slotted pick up line. Blow air into the opening or gently prod the exposed ball with a small clean rod or wire. This will also unseat the ball if the sump is loading up under operating conditions.

If the sump continues to fill up, when the machine is not running, remove the cam case cover and oil pump. To remove the oil pump, first remove the left hand threaded pinion gear lock nut and unscrew the pump driving spiral gear (also left hand thread) while removing the pump. After the pump is removed observe that there is a check ball inside of the main oil feed hole in the crankcase. The ball cannot be removed because it is installed from the inside of the crankcase with a spring and lock screw. However, a stream of air or gentle prodding with a small clean rod will reseat the ball.