

# **Sunshine 7hp Engine**

## **TECHNICAL HISTORY**

The SUNSHINE family of engines was manufactured in Australia by Hugh V. McKay at the Sunshine Harvester Works, Sunshine Vic. The family of engines was being made in the 1910's & 1920's. The 7hp engine was one of the larger engines in the Sunshine family of 3, 5, 7, & 10hp engines.

The 7hp SUNSHINE was a vertical tank cooled engine of 2-stroke design. Dimensions are Bore 5", Stroke 5 1/2". Operating speed is between 400 & 600rpm, with standard pulley of 10" and twin 22" flywheels.

Petrol is stored in a tank in the base of the engine. A diaphragm pump operated by crankcase pressure, pumps petrol to the carburettor, with excess petrol draining back to the tank.

Lubrication is by total waste, with 3 sight feed lubricators being used. Two supply oil direct to each of the main crankshaft bearings, while the third supplies the crankcase. The connecting rod bearings and the cylinder walls are splash lubricated from this supply, not from a petrol/oil mix found in many other 2-stroke engines.

Ignition is by High Tension magneto fitted with a lever for retarding the spark, and a simple earthing device for stopping.

The SUNSHINE engine is a compact engine with a reputation for running best under load. The external sight feed lubricators, petrol pump and copper pipes, together with its "fish-tail" cast muffler and 2-stroke beat, make it an interesting engine.

## **WORKING HISTORY**

The working history of this engine is unknown. It is understood to have been donated to the club through Bob Grant. . To the best of our knowledge, most of the "hang on" bits are missing. There are no oilers, carby, magneto etc. The engine turns over and appears to have been de-rusted. . No doubt we will have to spend \$\$'s to get this one going again.