

# Sunshine 5hp 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 1910s & 1920s. The 3hp engine was the smallest of the family.

The 3hp SUNSHINE was a vertical tank cooled engine of 2-stroke design. Dimensions are Bore 3 1/2", Stroke 3 1/2". Operating speed is between 450 & 700rpm, with standard pulley of 5 1/2" and twin 16" 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

Purchased by Albert Frampton the original owner of Philcox Hill in 1918 from Farmers Union who were agents for the Sunshine range. Albert Frampton of Philcox Hill who used it to drive a Salman Chaffcutter and a Salman Corn Grinder (the latter still being in existence). The engine had little use due to a lack of mechanical knowledge. The gauze in the inlet was blocked having been tampered with. The engine stood unused in a shed for many years. Syd Brittain intended to restore it some time, but again made a significant donation to the AHMRC. This engine also was predominantly repaired by Peter Daw and Des Kotz. The fuel system was overhauled new filters, pipes & fittings etc & a much larger water tank.

