

EXTERNAL BREATHER SYSTEM

Lister-Petter TS1 and TR1 Diesel Engines

Description

TS1 and TR1 Lister-Petter diesel engines have an internal crankcase breather system. This connects the crankcase via the rocker cover to a small breather tube passing directly into the engine air intake port. When a Chalwyn air intake shutdown valve is fitted, the internal breather connection will permit sufficient air to be drawn into the engine via the crankcase to enable the engine to continue to run after the Chalwyn valve closes. Conversion to an external breather system venting to atmosphere overcomes the problem.

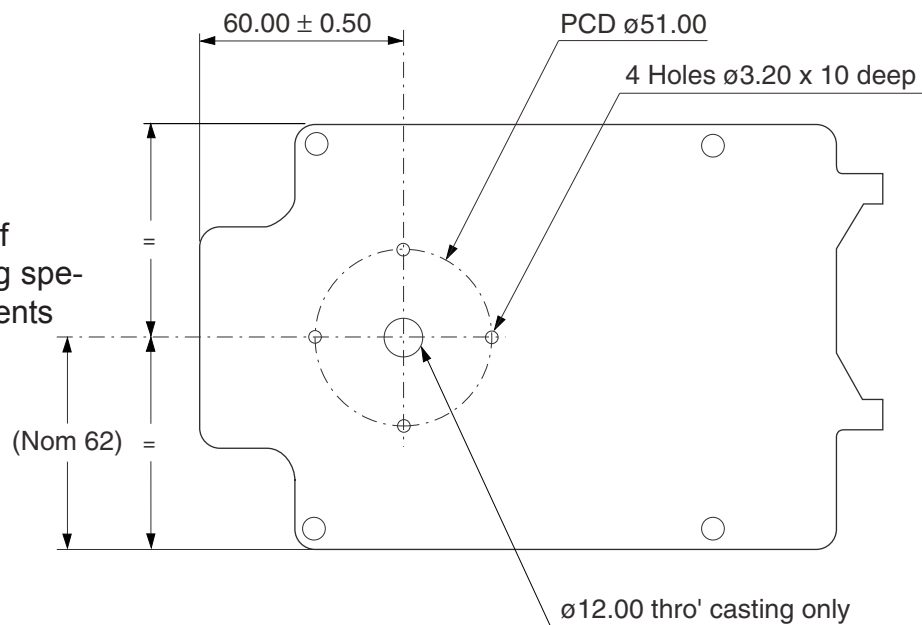
Maintenance

On a yearly basis remove the Chalwyn breather assembly from the engine. Soak in white spirit or other cleaning fluid to remove oily deposits from the oil separator fitted inside the breather. (Observe the manufacturer's precautions when using cleaners). Thoroughly dry assembly. Refit using a replacement o ring.

Installation

1. Remove engine rocker cover. Modify by drilling holes as shown in diagram 1.
2. Fit Chalwyn breather assembly BLT-040 to rocker cover using the o ring and self tapping screws supplied.
3. Locate the 5mm bore internal breather tube. Coat the aluminium plug (BLT-021) with a suitable grade of Loctite or other oil and temperature resistant sealant and gently drive into the breather tube. Allow to dry then refit rocker cover.
4. Slide the length of oil resistant hose supplied over the breather outlet tube and fasten using the jubilee clip JC-02.

Diagram 1:
View onto top face of rocker cover showing special drilling requirements



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