

EXTERNAL BREATHER SYSTEM

Lister-Petter Alpha Series Engines

Description

Alpha series Lister-Petter diesel engines have an internal crankcase breather system. This connects the crankcase via the rocker cover to small breather drillings directly into the engine air intake ports. When a Chalwyn air intake shut down 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 this problem.

Installation

1. The basic Lister engine must be fitted with both a high level (rocker cover mounted) oil filler and a low level oil filler. Unscrew the complete oil filler assembly from the rocker cover. Screw the Chalwyn breather/oil separator assembly (part BLA-030) in its place. Discard the Lister filler.
2. Remove the engine rocker covers and locate the breather tubes (one per cylinder). Remove the breather tubes, coat the aluminium plugs (part number BLA-031) with a suitable grade of Loctite or other temperature and oil resistant sealant and gently drive one plug into each drilling from which a breather tube was removed. Allow sealant to set. Re-fit rocker cover.
3. Slide the length of oil resistant hose supplied over the breather tube outlet and fasten using the jubilee clip (part JC-02). Start engine and set Chalwyn valve.

Maintenance

On a yearly basis remove the Chalwyn breather assembly from the engine. Soak in a suitable cleaning fluid to remove oily deposits from the oil separator fitted inside the breather assembly. (Observe the manufacturer's precautions when using cleaners). Thoroughly dry the breather assembly and re-fit.

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