



Induction and exhaust system

The filter system for the engine inlet air comprises a cyclone type preclearer, and a paper filter which acts as the main filter. The incoming air is made to rotate in the cyclone preclearer. This causes most of the impurities to settle out and collect in the cyclone preclearer dust collector. The paper filter comprises two replaceable filter elements. The paper is conugated and surrounded by a metal support.

The impurities in the air collect at the larger filter element which can be cleaned when necessary. The inner safety filter prevents impurities form entering the engine should the main filter element break, or be fitted incorrectly. An electric service indicator is located in the filter body. This sender lights a control lamp on the instrument panel when the air filter is blocked. The inlet system also includes the hoses between the air cleaner and the turbocharger and the turbocharger and the induction manifold.

The exhaust manifold is attached to the cylinder head with high tensile bolts without a separate gasket. Retightening of the manifold bolts is unnecessary.

The turbocharger is small and thus it reacts sensitively at low engine revs. The turbocharger gets lubricating oil and cooling from the engine lubricating and cooling system.

Valmet 820 Parts Manual

Patrick Vollmar

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