INTRODUCTION



GENERAL

This section has descriptions and repair instructions for the Perkins 4.236 and the Perkins 4.2482 diesel engines. Checks and Adjustments and Troubleshooting procedures are included in this section.

DESCRIPTION

The 4.2482 engine is a modification of the 4.236 design to give decreased exhaust emissions and smoke. Some parts are not common to the two engines, but the repair procedures are similar. When the procedures or parts are different, a description is given for each engine.

The cylinder block is cast—iron and has cylinder liners that can be replaced. The 4.236 engine is available with two types of cylinder liners: either with a flange or without a flange. Both Perkins engines made for Hyster Company normally have a flange on the cylinder liner.

The cylinder head is cast-iron and has an intake valve and an exhaust valve for each cylinder. The injectors are in the cylinder head. The overhead valve assembly is actuated by the camshaft found on the right side of the cylinder block.

The crankshaft has five main bearings. Number three main bearing is the thrust bearing and has thrust washers on each side of the main bearing.

The pistons are aluminum alloy castings. The piston for the 4.236 engine has five piston rings and a combustion chamber in the top of the piston. The piston for the 4.2482 engine has three piston rings. The combustion chamber in the 4.2482 engine is a modification of the 4.236 engine and is called a "squish lip" by the manufacturer.

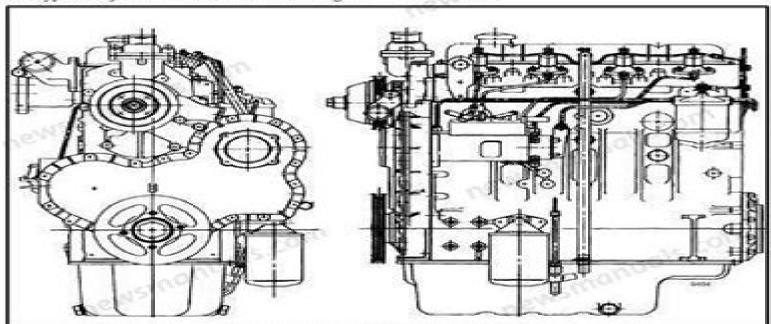


FIGURE 1. PERKINS 4.2482 ENGINE

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