

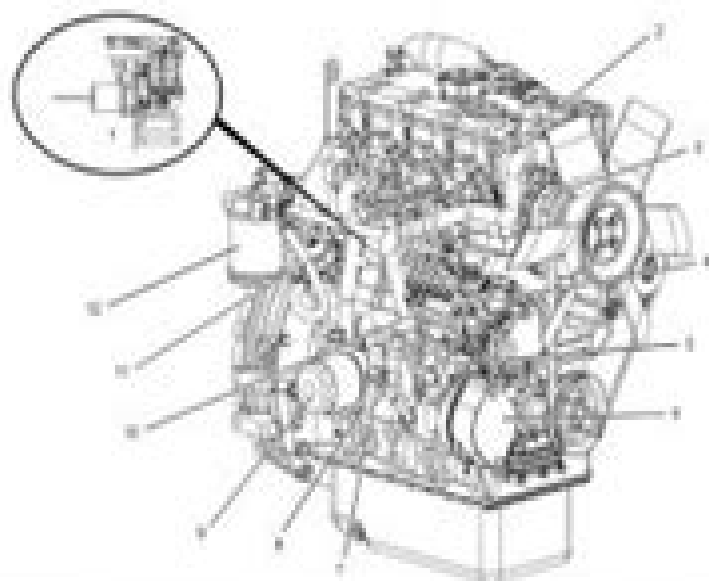


Illustration 10
Front and right side view of the diesel/gel engine

- | | | |
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| 101 Fuel pump assembly | 102 Cylinder head | 103 Engine oil filter |
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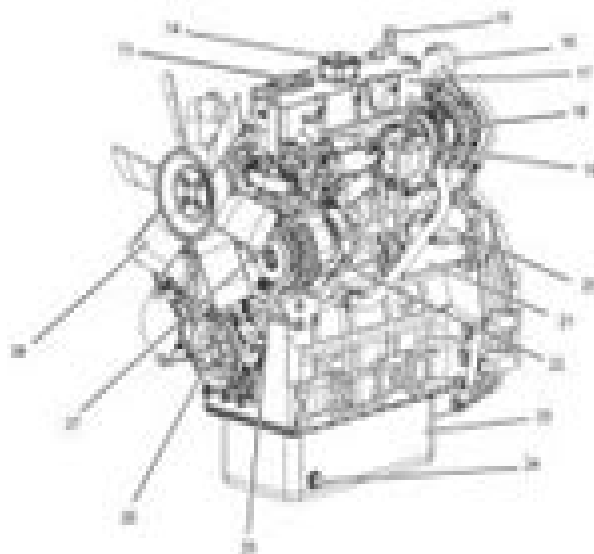


Illustration 11
Front and left side view of the diesel/gel engine

- | | | |
|---------------------------------|--|-------------------------|
| 101 Fuel pump assembly | 102 Cylinder head | 103 Engine oil filter |
| 104 Timing and belt drive | 105 Valve stem for the secondary valve | 106 Fuel injection pump |
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Engine Description

The 101 series engines are indirect injection engines. The engines are controlled with a mechanically actuated fuel injection pump. The engine cylinders are arranged inline.

The cylinder head assembly has one inlet valve and one exhaust valve for each cylinder. Each cylinder valve has a single valve spring.

The pistons have two compression rings and an oil control ring. It is important to ensure the correct piston height so that the piston does not contact the cylinder head. The correct piston height also ensures efficient combustion of fuel that is necessary in order to conform to requirements for emissions.

The crankshaft for a two cylinder engine has two main bearing journals. The crankshaft for a three cylinder engine has four main bearing journals. The crankshaft for a four cylinder engine has five main bearing journals. End play is controlled by the thrust washers that are located on the rear main bearing

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J Elliott



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