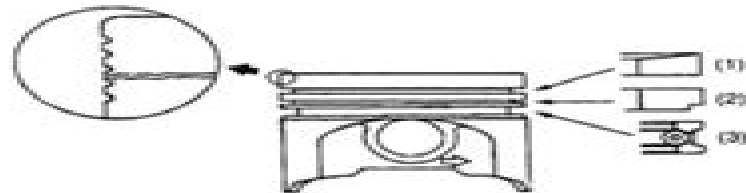


[5] PISTON AND PISTON RING



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Since the piston is always subjected to high temperature and high pressure and reciprocates within the cylinder, it must be lightweight, tough, heat resistant, wear resistant, and of little thermal expansion. For this reason, the piston is made of High-silicone (aluminium alloy).

The piston crown is flat-formed. Grooves are formed around the piston crown and these aid heat dissipation and prevent scuffing of the piston and cylinder liner.

The piston has three piston rings.

The top ring (1) is of a Keystone type to prevent gas leakage, and it designed for a better initial fit and to prevent abnormal wear and seizure. The ring surface is hard-chromium plated for improved wear resistance.

The second ring (2) is an under-cut type which effectively prevents the rise of oil.

The oil ring (3) has chamfered contact faces and an expander ring, which increase the pressure of the oil ring against the cylinder wall.

A portion of the scraped oil is forced inside the piston as it passes through escape holes in rings and piston. These oil rings are plated with hard chrome to give increased wear resistance.

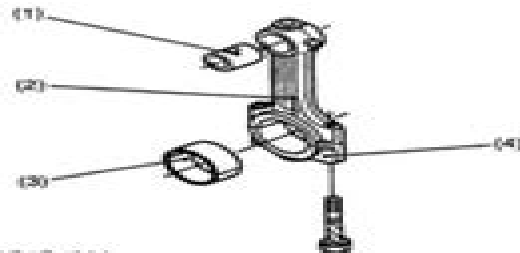
(1) Top Ring

(3) Oil Ring

(2) Second Ring

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[6] CONNECTING ROD AND CONNECTING ROD BEARING



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The connecting rod (2) is made of I-shape forging of carbon steel so that it can withstand large repetitive impacts.

The big end of the connecting rod is of a horizontal split type and tightened with special screws. Since the connecting rod body (2) and cap (4) are I.D. machined after matching, matching must not be changed.

The crank pin bearing (3) is a split type, and made of copper-lead alloy (called Kelmet) (with a mild steel back metal). The surface is tin plated to obtain a better initial fit.

The piston pin bushing (1) is made of lead bronze (with a mild steel back metal) which has the most excellent shock resistance, load resistance and heat resistance. The surface is tin plated.

(1) Piston Pin Bushing

(3) Crank Pin Bearing

(2) Connecting Rod

(4) Connecting Rod Cap

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Hussin A.Rothana



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Integrated Assessment of Water Resources and Global Change Eric Craswell,Mike Bonnell,Deborah Bossio,Siegfried Demuth,Nick van de Giesen,2007-04-05 This book presents papers from an international conference held in Bonn Germany in February 2005 that dealt with integrated water resources management in industrialized and developing countries The papers detail such emerging concepts as blue and green water virtual water the water footprints of nations multi agent modeling linkages between water and biodiversity and social learning and adaptive management

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