4 Stroke Engine Lab

SAMPLE LAB

Note: Please make all measurements in metric.

B. Piston, Piston Rings, and Wrist Pin.

1. Piston Diameter

Measure the diameter of the piston using a micrometer.

Piston Diameter: _____ mm

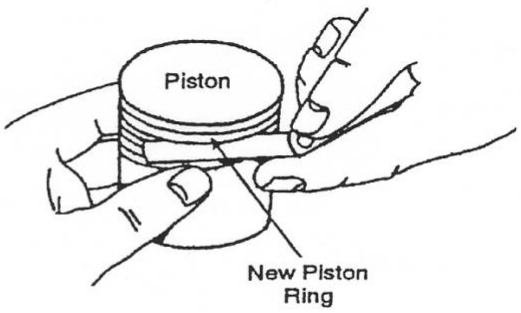
Where did you take this measurement?

_____

2. Ring Side Clearance

Using a feeler gauge measure the ring side clearance and end gap.

Cyl. I	Top Ring
	Middle Ring
	Bottom Ring



D. Crankshaft, Connecting Rod, Main Bearings

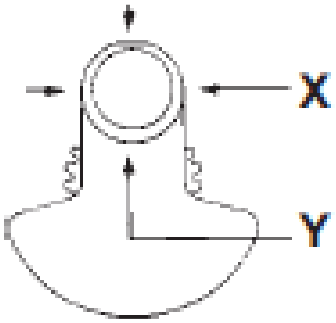
1. Crankshaft

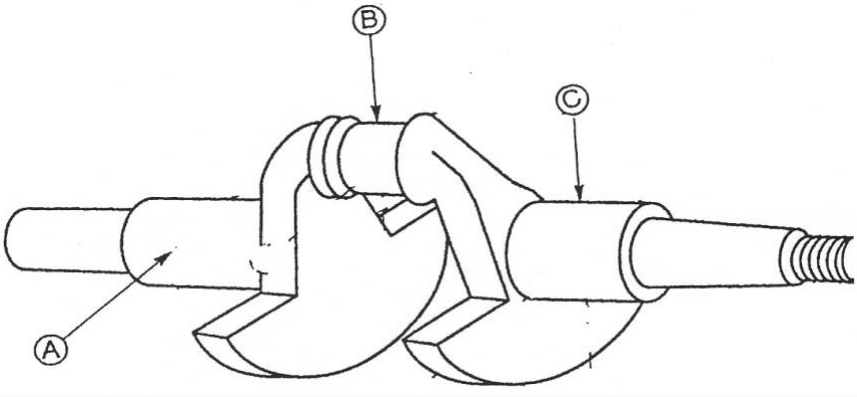
Measure the crankshaft at two locations each at journals A, B, C and record your measurements below.

(A) X_____ Y_____ mm

(B) X_____ Y_____ mm

(C) X _____ Y _____mm





3. Main Bearings

Use a telescopic gauge and outside micrometer to measure the inside diameter of the crankcase cover bearing which supports the crankshaft (Flywheel side). Now using your previous crankshaft measurements calculate the bearing clearance of the crankshaft and its bearing at the:

Bearing size: _____mm

Journal size: _____mm

Clearance = _____mm