Vacuum Gauge Reading
PERTAINING TO MOTOR TUNE-UP
DARK NEEDLE INDICATES STEADY HAND
LIGHT NEEDLE INDICATES FLUCTUATING HAND

Normal Motor Normal Motor Poor Rings or Oil Poor Rings or Oil

Hand steady between 17 and 21 Opening and closing throttle rapidly. Rings and valves O.K.

Sticky Valve Burnt Valve Leaky Valve Loose Valve Guides

Hand drops occasionally about 4 divisions Hand drops regularly several divisions Hand drops 2 or more divisions when valve should close Fast vibration of hand between 14 and 19

Weak Valve Springs Late Valve Timing Late Ignition Timing

Motor racing, hand registers 10 to 22. Wider variations as speed is increased Hand reads from 8 to 15 and remains steady Hand reads from 14 to 17 and remains fairly steady Hand floats slowly between 14 and 16

Leaky Intake or Carburetor Gasket Leaky Head Gasket Between Cylinders Choked Muffler Carburetor Out of Adjustment

Hand reads below 5 Hands float regularly between 5 and 19 High reading at first. Breaks to 0 and builds back slowly to about 16 Hand floats slowly between 13 and 17

Best internet source of information and help for old Ford tractors.
www.ntractorclub.com