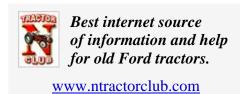
Engine Clearances and Dimensions

	New	Wear Limit		New	Wear Limi
CYLINDER Diameter Out of Round Taper or Max. Wear	3.1875-3.1885	.003 .004	PUSH RODS Diameter. Bore Diameter. Clearance in Bore Push Rad Length. Valve Lash Intake.	.99949996 1.000-1.0005 .0040011	.001 .002
PISTON, STEEL * Skirt Clearance PISTON, ALUMINUM * Skirt Clearance	.0025004	.005		1.722-1.723 .010012	*1,710
PISTON RINGS Side Clearance Compression Rings Oil Control Rings End Gap	.00150035 .00100025 .012017	.004 .004 .035	Exhaust CRANKSHAFT Journal Diameter Main Crankpin Out of Round Main Crankpin Taper	2.248-2.249	.017
PISTON PIN Pin Diameter ** Clearance in Piston *** Clearance in Rod	.75017504 .00010005 .00020005			2.0935-2.0945	,0015
VALVES (in tractors 8N-to 42160) Stem Diameter Intake and Exhaust Clearance in Guide Intake Exhaust Seat Angle	.31053115 .00250045 .00150035 45°	.004 .004 .006	Main Crankpin	.001003 .00130035 .002006	.001 .005 .005 .008
Spring Test	37-40 lbs. @ 21/8"	36 lbs.	CAMSHAFT		
VALVES (in tractor 8N-42 161 and up) Stem Diameter Intake	.34103420 .34053415	.004 .004 .004	Bore Diameter Journal Diameter Bearing Clearance End Play	1.79851.7990 1.7965-1.17970 .001002 .0015004	.0015 .004 .005
Intake	.00200040 .00250045		TIMING GEAR BACKLASH	.003004	.006
Seat Angle	45 41-44 lbs. @ 1.80*	36 lbs.	OIL PUMP GEAR BACKLASH	.003004	.006

^{* 6-10} lbs. pull on ½ inch wide .003 feeler gauge.
** Thumb push fit.

Regrind limit.



^{***} Slip fir.