

TP 004 Fuel Pump Test Data In – Line



Equipment Specification

Fuel pump: BPE4A60S310S6319.
also S6235 & S6383 same Calibration.
Governor: BEP/AMZ80A100
Injector: BKB 35S87 / BKB32S630
Nozzle: BDL110S6133 set @ 120 ats

Installation Specification.

Application: Tractor Stationary Industrial etc.
Engine Type: PERKINS P4 1953 - 1957

Test Rig Conditions.

Nozzle Holders: BKB50SD19b
Nozzle: BDN12SD12
Injection Setting Pressure: 175 atm.
High Pressure Pipes: 6mm x 2mm x 600mm long.

Test Procedure.

Phasing:
Set No 1 line to 0.5. Plus Or Minus 0.05 Head Clearance.
Phase other lines to within Plus or Minus 0.5 degrees of No 1.
Firing Order: 1. 3.4.2 Clock Wise Rotation from No 1 end.
Feed Pump Pressure: 8 to 12 psi (0.56 to 0.15 kg/cm²)

Calibration Order of Tests:

TEST No:	C.R.O In Mm's	R.P.M	No of Strokes	Fuel Delivery c.c's	Max Spread cc's
1	12	1000	100	3.9 – 4.1	0.3
2	7	1000	100	1.0 to 1.6	0.4
3	7	200	100	0.6 – 1.0	0.3
4	Not Less Than 4	1000	0	zero	=

Remarks: Maximum Fuel Setting:
9.6ccs /200 strokes @ 1000 RPM

This is a re-issue of a CAV Test Plan.
Peter Slater FIE