

BOSCH INJ. PUMP TEST SPECIFICATIONS

Note remarks

Test sheet : MB 2,5 H5
 Edition : 17.02.89
 Replaces : 15.11.88
 Test oil : ISO-4113
 Combination no. : 0 400 075 953
 Injection pump
 Pump designation : PES5M55C32ORS170
 EP type number : 0 410 055 977
 Governor
 Governor design. : RSF350/2300M71
 Governor no. : 0 420 021 113

Customer-spec. information
 Customer : DB

Engine : OM602-ECE
 1st version kW : 66.0

TEST BENCH REQUIREMENTS

Test oil
 inlet temp. °C : 38...42
 Overflow valve : 1 469 990 351
 Inlet press., bar : 1.00
 Test nozzle holder
 assembly : 0 681 343 009
 Opening
 pressure, bar : 172...175

Test lines : 1 680 750 014

Outside diameter
 x Wall thickness
 x Length mm : 6.00x2.00x600

(A) Injection pump setting values
 Insp. values in parentheses
 Set equal delivery quant.
 per values _____

BEGINNING OF DELIVERY
 Test pressure, bar: 30...32

Prestroke mm : 2.00...2.10
 : (1.95...2.15)
 Rack travel in mm : 20.00...22.00
 Firing order : 1- 2- 4- 5- 3

N24

Phasing : 0-72-144-216-288
 Tolerance + - ° : 0.00 (1.00)
 Time to cyl. no. : 1

BASIC SETTING

1st speed rpm : 1000
 Rack travel in mm : 12.80...12.90
 Del. quantity cm³/ : 3.2...3.3
 100 s : (3.1...3.4)
 Spread cm³ : 0.2
 100 s : (0.3)

2nd speed rpm : 350.0
 Rack travel in mm : 7.0...7.2
 Del. quantity cm³/ : 0.5...0.6
 100 s : (0.4...0.9)
 Spread cm³ : 0.1
 100 s : (0.1)

FULL LOAD DELIV. AT FULL LOAD STOP

1st version
 Speed rpm : 1000
 Aneroid pressure h : 1100
 Del. quantity : 32.0...33.0
 1000 : (31.0...34.0)
 Spread cm³ : 2.50
 1000 : (3.00)

RATED SPEED

1st version
 Control lever
 position degrees: 50...0
 3rd rack travel in: 9,00...9,40
 Speed rpm : 2500
 4th rack travel in: 2950
 Speed rpm : 0.00...1.00

SET IDLE CONTROL LEVER
 POSITION

Speed rpm : 1000
 Rack travel in mm : 1,7...1,8

LOW IDLE 1
 Control lever
 position degrees: 12...16
 Setting point w/out bumper spring