

BOSCH-INJ.-PUMP TEST SPECIFICATIONS

Note inst. in remarks column

Test sheet : CUM 3,9 P35
Edition : 15.07.91
replaces : -
Calibrating oil : ISO-4113

Injection pump : VE4/12F1050R389-2
Type number : 0 460 424 078
Customer Part-No. :

Customer-specific information
Customer : CDC

Engine : 4 BT- 390 AUTOM.

Power KW: 78
Speed 1/min: 2100

TEST BENCH REQUIREMENTS

Calibrating-oil
return temp. °C
with thermometer : 40.00...48.00
Electronically : 42.00...50.00

Inlet press., bar : 0.30...0.40

Calibrating nozzle-holder
assembly : 1 688 901 027

Opening
Pressure bar: 250.00...253.00

Perforated-plate
diameter mm: 0.5

Test inj. tubing : 1 680 750 017

Outside diameter : 6.00
x Wall thickness : 2.00
x Length mm: 840

Start of delivery
Prestroke mm: 0,3
(from BDC): ±0,02(0,04)

Start of delivery block
Piston stroke mm: 1,55
mm: ±0,02(0,06)

Outlet : A

Injection-pump setting values
Test specifications in parentheses

H24

Timing-device travel

Speed 1/min: 750
Charge press. hPa: 1000
Setting value mm: 3.40...3.80
Shutoff
electromagnet Volt: 24

Supply-pump pressure

Speed 1/min: 750
Charge press hPa: 1000
Setting value bar: 5.00...5.60
Shutoff
electromagnet Volt: 24

Full-load del. with charge press.:

Speed 1/min: 750
Charge press. hPa: 1000
Del. quantity cm³/
1000S.: 89.50...90.50
Shutoff
electromagnet Volt: 24
Dispersion cm³/
1000S.: (4.5)

Full-load del. w/out charge press.:

Speed 1/min: 500
Del. quantity cm³/
1000S.: 63.50...64.50
Shutoff
electromagnet Volt: 24

Low-idle speed regulation

Speed 1/min: 375
Del. quantity cm³/
1000S.: 8.00...14.00
Shutoff
electromagnet Volt: 24
Del. quantity cm³/
1000S.: (7.0)

Full-load speed regulation

Speed 1/min: 1100
Charge press hPa: 1000
Del. quantity cm³/
1000S.: 59.00...65.00
Shutoff
electromagnet Volt: 24

Start:

Speed 1/min: 100
Del. quantity cm³/
mind 1000S.: 60.00...140.00