

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 cm<sup>3</sup>/  
 1000S.: 89.50...90.50  
 Shutoff  
 electromagnet Volt: 24  
 Dispersion cm<sup>3</sup>/: 4.0  
 1000S.: (4.5)

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

Speed 1/min: 500  
 Del. quantity cm<sup>3</sup>/  
 1000S.: 63.50...64.50  
 Shutoff  
 electromagnet Volt: 24

Low-idle speed regulation

Speed 1/min: 375  
 Del. quantity cm<sup>3</sup>/  
 1000S.: 8.00...14.00  
 Shutoff  
 electromagnet Volt: 24  
 Del. quantity cm<sup>3</sup>/: 5.5  
 1000S.: (7.0)

Full-load speed regulation

Speed 1/min: 1100  
 Charge press hPa: 1000  
 Del. quantity cm<sup>3</sup>/  
 1000S.: 59.00...65.00  
 Shutoff  
 electromagnet Volt: 24

Start:

Speed 1/min: 100  
 Del. quantity cm<sup>3</sup>/: 60.00...140.00  
 mind 1000S.: 60.00