

BOSCH TEST SPECS. IP ASSEMBLY TEST SHEET : MAN 12.0 a
 Edition : 06.93 (2) EN
 Pump : PES 6 P 120 A 720/3 LS 7221 Type number : 0 412 726 841
 Regulator : RE 30 Type number : 0 421 890 007
 IP-ASSEMBLY: 0 402 796 803 CUSTOMER IDENT. NO.:

Customer-specific details
 Customer: MAN
 Engine: D 2866 LF 10
 Output kW:
 at 1/min:

	Min	Max
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Test PREREQUISITES

Test oil inlet temperature	°C	38	42
Overflow valve		2 417 413 025	
Inlet pressure	bar	1.5	1.6
Overflow	l/h	-	-
Calibrating nozzle-holder assembly		1 688 901 105	
Opening pressure	bar	207	210
Perforated plate diameter	mm	0.8	
Test pressure line		1 680 750 015	
Dimensions:			
Outer diameter.	mm	6.0	
x wall thickness	mm	1.5	
x length	mm	600	

TEST SPECIFICATIONS

Section A -
 Setting values of injection pump
 - Check values denoted by "P"
 - No basic setting. Equal delivery setting under Section C.

PORT CLOSING 1)

PC setting cyl.	6	
Test pressure bar	25	27
Prestroke (from BDC)	mm	4.80 4.90
P Prestroke (from BDC)	mm	4.75 4.95
Control-rod travel	mm	15.0 16.0
Cam sequence	6 - 2 - 4 - 1 - 5 - 3	
PC difference	°CS	60 each
tolerance +/-°CS		0.50
P tolerance +/-°CS		0.75

	Min	Max
PC mark Cyl.-No. - 2)		
Pulse wheel position (PC cam)	°CS	0 3)
Tolerance +/-°CS		0.20
P Tolerance +/-°CS		0.75

Section B -

Actuator test
 - Check values denoted by "P"
 - Assembly warm-up time: 3 mins. at n = 600 1/min, U/actual = 2.5 V

CONTROL-ROD PICKUP SETTING

Test speed	1/min	0
Setting value U/actual	V	3.100
Control-rod travel	mm	12.95 13.05
P Control-rod travel	mm	12.90 13.10
Check value U/actual	V	1.700
Control-rod travel	mm	5.90 6.40
P Control-rod travel	mm	5.85 6.45

Stop position

U/actual	V	mind. 4)
Control-rod travel	mm	0.5 1.0
P Control-rod travel	mm	0.4 1.1

SPEED SENSOR SIGNALS

- Test with control rod in stop position
 Speed 1/min 60
 pos.amplitude V 0.8 2.0
 P pos.amplitude V 0.6 3.0
 Speed 1/min 600
 Difference Amplitude to Amplitude V max. 1.4

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