

CHECKING AND ADJUSTING VALUES : EP3 - EP3C - EP6 - EP6C - EP6CB ENGINE TYPE

1. Foreword

1.1. Units of pressure

1.1.1 Units of pressure in bars.

N.B. : One bar has the advantage of being close to the average atmospheric pressure at sea level.

1.1.2 Unit of pressure in millimetres of mercury (symbol: mmHg) or Torr (symbol: Torr).

Unit for measuring pressure initially defined as the pressure exerted at 0°C by a 1 millimetre column of mercury, and later indexed to atmospheric pressure.

N.B. : The values of pressure indicated in the tables below are in relative pressure.

N.B. : Relative pressure is equal to absolute pressure minus atmospheric pressure.

1.2. Units of tension

The SEEM unit measures by deflection of the static tension of the belt, by deforming a portion of its length.

2. General engine information

2.1. EP3 - EP6 engines

Engine type	EP3	EP6
Engine legislative type	8FS	5FW
Cubic capacity	1397 cc	1598 cc
Fuel	Super unleaded 95 RON	
Maximum power	70 kW	88 kW
Engine speed at maximum power	6000 rpm	6000 rpm
Maximum torque	13 daNm	16 daNm
Engine speed at maximum torque	4000 rpm	4250 rpm

2.2. ep3c - ep6c engines

Engine type	EP3C	EP3C	EP6C	EP6C
Engine legislative type	8FR	8FP	5FS	5FS
Cubic capacity	1397 cc	1397 cc	1598 cc	1598 cc
Fuel	Super unleaded 95 RON			
Maximum power	72 kW	70 kW	88 kW	88 kW
Engine speed at maximum power	6000 rpm	6000 rpm	6000 rpm	5660 rpm (*)
Maximum torque	13,6 daNm	13,6 daNm	16 daNm	16 daNm
Engine speed at maximum torque	4000 rpm	4000 rpm	4250 rpm	4250 rpm
(*) : Russia version				

2.3. EP6 CB engine

Engine type	EP6 CB (*)
Engine legislative type	5FK

Cubic capacity	1598 cc
Fuel	Super unleaded 95 RON
Maximum power	72 kW
Engine speed at maximum power	6000 rpm
Maximum torque	15,2 daNm
Engine speed at maximum torque	3500 rpm
(*) : Decalibrated engine	

3. Sparking plugs

engine	Plug	Electrode gap
EP3-EP3C	BERU (Multiple electrodes)	1 ± 0,05 mm
EP3-EP3C Hot countries	BERU (One electrode)	0,95 ± 0,1 mm
EP6-EP6C	BOSCH	0,95 ± 0,05 mm

4. Oil capacity

After oil change, without replacement of filter	4 litres
After oil change, with replacement of filter	4,25 litres
Difference between minimum and maximum on the gauge	1,2 litre

Oil change interval : Refer to the maintenance schedule.

CAUTION : Always check the oil level using the dipstick.

5. Oil pressure

5.1. ep3 - ep6 engines

Oil pressure is checked with the engine hot after checking the oil level.

Oil temperature fixed at 80 °C.

Engine speed	Pressure
1000 rpm	2 ± 0,3 bar
2000 rpm	3,2 ± 0,3 bar
4000 rpm	3,2 ± 0,3 bar

5.2. EP3C - EP6C - EP6CB engines

Engine speed	Pressure
IDLING	1,7 ± 0,3 bar
1000 rpm	1,8 ± 0,3 bar
2000 rpm	2 ± 0,3 bar
3000 rpm	2,6 ± 0,3 bar
4000 rpm	3,5 ± 0,3 bar

CAUTION : Carry out work on the engine if the oil pressure values are below those in the table.

6. Ancillary drive belt

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equipment	Belt tension
All types	By dynamic roller tensioner

7. Timing chain

equipment	Chain tension
All types	By chain tensioner

8. Cylinder head bolts

CAUTION : Always replace cylinder head bolts and washers.

9. Pressure, engine end of compression

Measure the pressure at the end of compression, in order, on cylinders 1, 2, 3 and 4.

N.B. : The difference in pressure between 2 cylinders must not exceed 5 bars.

CAUTION : Always search for the origins of fault(s), where the values measured are found to be significantly out.