



- A) Circulating oil circuit**
- 1 circulating oil pump
 - 2 main lubricating-oil filter
 - 3 to heat exchanger
 - 4 heat exchanger for lubricating oil
 - 5 to oil pump for lubrication of crank assembly and control system
 - 6 pressure relief valve 6-7 kg/cm² (85-100 p.s.i.)

- B) oil circulation for crank assembly**
- 1 crankshaft oil fine filter
 - 2 inlet to main running parts
 - 3 to governor

- C) Piston cooling oil circuit**
- 1 piston cooling oil pump
 - 2 to heat exchanger for piston cooling oil
 - 3 oil outlet from casing
 - 4 pressure relief valve 8 kg/cm² (114 p.s.i.)
 - 5 pressure relief valve 15 kg/cm² (213 p.s.i.)

- D) Control oil circuit**
- 1 control oil pump
 - 2 lubrication of exhaust-gas turbocharger (lower bearing)
 - 3 lubrication of camshafts and rocker arms
 - 4 oil reflux to casing
 - 5 lubrication of exhaust-gas turbocharger (upper bearing)
 - 6 pressure relief valve 2-3 kg/cm² (28,5-42,5 p.s.i.)
 - 7 pressure relief valve 10 kg/cm² (142 p.s.i.)

- E) Lubricating oil priming pump circuit**
- 1 oil inlet from priming pump
 - 2 non return valve
 - 3 to start limitation