Disposition of oil-pumps

A. Circulating oil circuit
1. Circulating oil pump
2. Main lubricating oil filter
3. To heat exchanger
4. Heat exchanger for lubricating oil
5. 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 line 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 (116 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