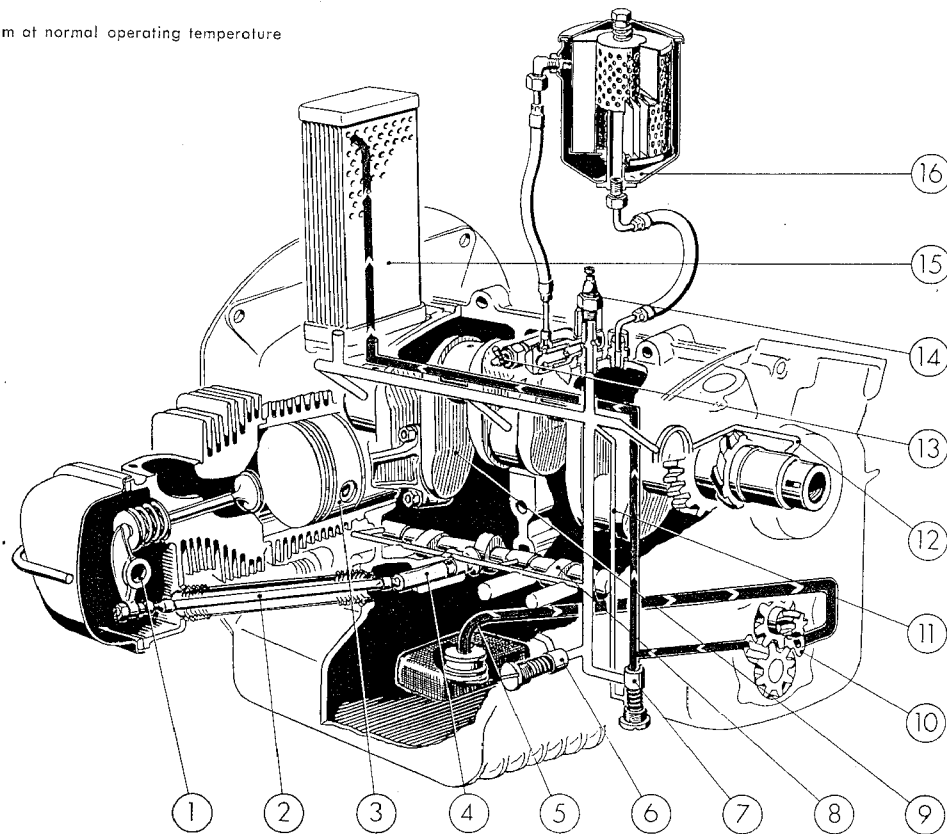


ION OF THE OIL SYSTEM

Oil system at normal operating temperature



- ⑪ Back pressure line
- ⑫ No. 4 main bearing oil line
- ⑬ Sending unit for oil thermometer
- ⑭ Sending unit for pressure indicator

- ⑮ Oil cooler (offset rearward for better view).
- ⑯ By-pass oil filter

Fig. 108

When oil has filled the oil passages pressure builds up causing oil to enter the back pressure line to the by-pass valve at a pressure of approx. 2.9 atu (41.2 psi) (the pressure which is governed by the pressure relief valve).

At this time the by-pass valve piston pressure is reinforced by 3 atu pressure from beneath increasing the total upward pressure to 4.3 atu (61 psi).

This pressure rise working 4.3 atu against 3 atu, causes the by-pass valve to close. The oil now circulates first through the oil cooler and then to the lubrication points.