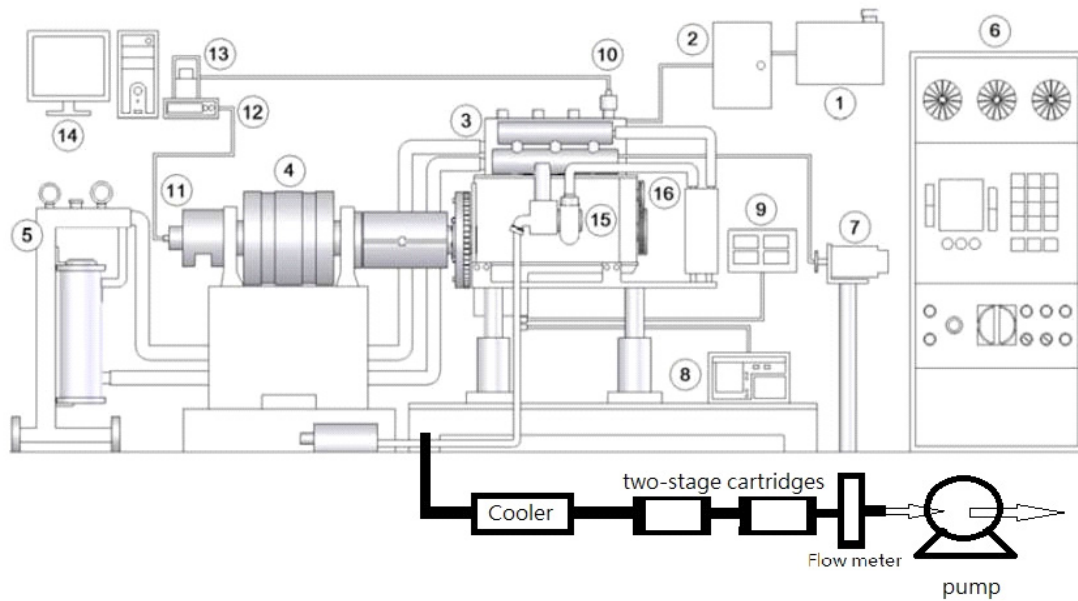


## Appendix



Diagrammatic representation of diesel engine.

1. Fuel tank	10. Pressure transducer
2. Volumetric fuel consumption meter	11. Decoder
3. Diesel Engine	12. Signal converter
4. Engine dynamometer	13. Voltage signal amplifier
5. Heat exchanger	14. Cylinder pressure data processing computer
6. Dynamometer control box	15. Turbocharger
7. Jet pump throttle opening degree controller	16. Intercooler
8. Exhaust gas analyzer	17. Air flow meter
9. Exhaust temperature measurement device	18. Air flow meter power supply and display header

**Fig. A1** The series of diesel engine and dynamometer system utilized in this study (Mwangi *et al.*, 2015b).