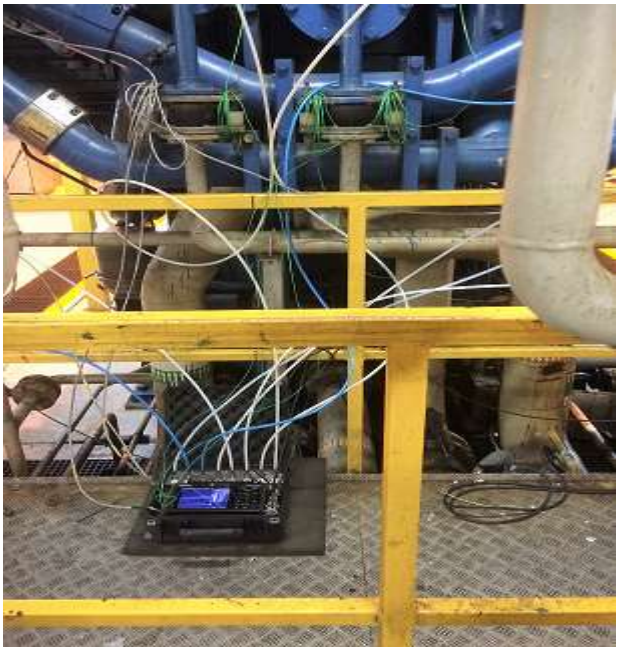
BONUM
Measurements

"When engine performance is lacking, the efficiency and availability will be affected and action on short notice is required. To determine the exact status and condition of the engine, recording of the actual performance is a must. Experience and professional equipment is there for hereby offered."

Engine performance measurements (combustion):

- Data logging of all significant engine parameters (such as temperatures and pressures via additional calibrated sensors) to verify the actual performance of the engine before/ after:
  - Major engine overhaul,
  - Retrofit of components like turbochargers, fuel pumps or camshafts
  - In- or decrease of engine output.



- Recording dynamic data like combustion and fuel injection pressures in time or/ and on crank angle base. Adapters can be made and instrumented to measure the pressure on specific spots like inside cylinder head (flame deck) or in high-pressure fuel pipes, rail or pump head.

Determine the specific fuel consumption of the engine with the use of Coriolis mass flow meters.
Supply and return mass flow of the fuel will be recorded together with actual engine output and ambient conditions.

- Exhaust gas emission like:
  - NOx,
  - CO,
  - CO2,
  - O2,
  - SO2,
  - THC.

  can be measured with our portable EC gas analyser.

- Torque measurement on rotating shafts to verify:
  - Actual output of the engine,
  - Dynamic load going through the drive line,

  Using strain gauge technics and telemetry system.