

## Case Study:

Napier NA358 Turbocharger

## Investigation into oil leak leads to installation of new cartridge and overhaul to damaged turbocharger

As Napier turbocharger authorised agents with Napier trained engineers, Royston were approached to investigate a long running oil leak on a Napier NA358 turbocharger on a Wartsila diesel generator in a manufacturing plant.

Once on site, after removing the compressor casing there was signs of damage to the impeller and carbon build up from a turbine oil leak preventing air flow through the turbocharger.

### Solution

After removing the old turbocharger, a new cartridge was fitted with oil pressure checked, clearances assessed, nozzle and shroud fasteners checked and torqued to manufacturers recommendations, engine prelube deisolated and a trial completed.

The defective turbocharger was brought back to Royston's workshop for cleaning and full overhaul.

### Result

The clients generator was fully operational within the same day and the overhauled set was returned to be used as a replacement should a failure occur in the future.

