

Visual Inspection:

- Check for leaks from tank and above ground piping/fittings
- Check for significant corrosion on the boiler's outer sheet metal. Its cast-iron sections, flue, electrical controls, nearby piping and components
- Open the boiler top or look through the inspection port to check for cracks in the firebox or on the target wall (the fire clay box or wall that the burner fires into or against)
- Check the draft regulator for free movement

Boiler Checks:

- Clean fuel filter
- Check operation of oil shut-off valve
- Check air inlets to boiler room and burner for blockage/size
- Check for cracks/damage to burner refractory
- Clean adjust spark adjustors
- Clean burner diffuser and air tube
- Check ignition transformer, HT cable and porcelain for cracking/deterioration
- Check operation of draught stabilizer
- Check effectiveness of flue with boiler running
- Check/clean flame photocell
- Clean boiler gas side heat transfer surfaces
- Check operation of high limit thermostat
- Replace burner nozzle
- Adjust burner pressure and diffuser plate to obtain correct flame shape/length
- Check operation of flame failure device

Combustion Efficiency Tests:

	"as tested"	Boiler "as new"
Boiler combustion gas O ₂		
Boiler combustion gas CO		
Boiler combustion gas °C		
Resultant boiler combustion efficiency (gross)		
Explanation for low efficiency:		

System Checks:

- Check setting and operation of time clock
- Check operation of zone values and thermostats
