Oil Boiler

An annual boiler safety check and boiler service, carried out by a professional service engineer ensures that your boiler is functioning properly. Regular servicing of your boiler is important as it ensures that the boiler is working to the specifications designed by the boiler manufacturer. This will help prolong the life of the boiler as well as reduce the risk of faults and expensive repairs down the line.

A detailed service will include inspection of the pipe work, ventilation, clearances etc. The system is then inspected, cleaned and reassembled. The operation of the boiler functions are then inspected for safe and correct operation. Finally a combustion efficiency test will be carried out to ensure that the appliance is operating at its maximum performance levels.

Annual Service check list: Oil Boiler

All boilers should be serviced in accordance with the manufacturer's instructions. Typically when performing an annual boiler service, the service engineer should carryout the following checklist:

Visual Inspection:

Check for oil 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:

Replace 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 electrodes	
Clean burner diffuser and air tube	
Check ignition transformer, HT cable and porcelain for cracking/deterioration	
Check operation of draught stabilizer	
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	

In addition to the previous checks, the service engineer should also carry out a combustion efficiency test on the appliance. This will ensue that the boiler is operating at its optimum efficiency.

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	☐

Additional Comments: