

Checking of Cylinder Head Temperature (CHT)

To be able to check the cylinder head temperature (CHT) a thermo element has to be installed which fits under the spark plug (M 10 thread). Optimum operating temperature range : 180°C - 220°C. In this range piston, spark plug and combustion chamber will be free of remains. Maximum temperature of 270°C should not be exceeded. During a certain time at full speed the temperature could be 250°C. Colour of the spark plug should be : light or middle brown. A grey / gray colour is a typical sign for over heating. Temperatures above 270°C are critical and over 300°C, piston can seize and could completely damage the engine.

Temperatures below 180°C create remains (carbon) on the piston crown. Increasing remains hit the cylinder and cause abnormal running noises (knocking) which will increase the load of the needle bearings and can destroy them. Under extreme conditions the crankshaft can break and a complete damage of the engine will be the result.