

Service Information No. 03 / 05

Date: 17.01.2005

Running Patterns of Rollers and Cams

VM / RM 43

Running Patterns of Valve Cams and Rollers

Due to recurring uncertainty regarding the assessment of the running patterns of valve cams and rollers we would like to provide once again the following information.

Already after a very short operating time, in some cases already after testbed trials and latest during commissioning, clear running patterns can be recognized on the cams and rollers of inlet and exhaust valves, which still become more pronounced during the first 1,000 operating hours. During further operation this process comes to a standstill and the running patterns will change only insignificantly depending on the operating conditions. These running patterns are normally hardly palpable and do not affect operational reliability. Repeated cam inspections on many engines with different operating hours have confirmed this.

On the fuel cams there are no such running patterns. Under normal operating conditions only slight running traces are visible in the area of the cam ramp.

To illustrate this, we are attaching to this Service Information a few pictures with typical running patterns of an **RM 43**.

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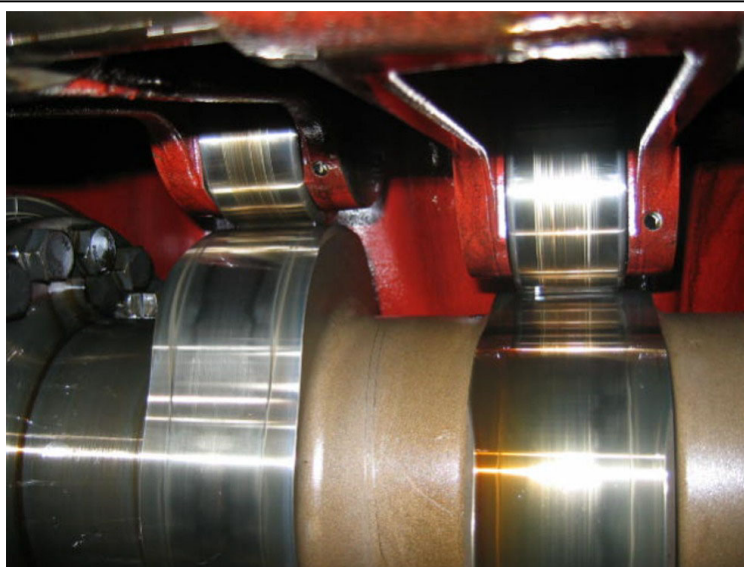
VM / RM 43



Inlet roller and cam after 70 operating hrs.



Exhaust roller and cam after 70 operating hrs.



Inlet and exhaust rollers and cams after 4,000 operating hrs.