

SERVICE BULLETIN

EOS engine

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date of release	.Dec. 2018	issue 1, #1218_1_m
for engine type / applicability	engines EOS 150 (ICI)	
status	mandatory	optional

Introduction

Due to failure reports from clients where engines have lost power generally or show much lesser power when getting hot or what broke down completely with piston and cylinder damages, we have investigated about a possible cause. Cylinder bore, piston and rings diversify during series production in measurements with acceptable tolerances. It may accure that a "smaller" bore in combination with "too big" rings cause problems especially during engine operation in high temperature runs (high RPM runs over longer period of times, full power operations). Due to temperature rings expand and may not fit any longer properly to the bore and increasing friction with the consequence that smaller or bigger damages to the cylinder walls step by step or instantly may occure, depending on oil ratio/fuel mixture, oil quality, method of engine operations, and in addition leading to piston damages.

Applicability

All engines - EOS 150 (ICI) from serial #1 up to including serial #122

Engines with higher serial numbers and EOS 150 ICI mod. 2019 engines are not effected!

Action

Dismount cylinder head and cylinder. Leave piston on crankshaft. Take off one upper piston ring and place into the cylinder as shown. Measure gap. Same with second piston ring. If in accordance to given measurement then place rings back to piston and reassemble engine.

If measurement of gap smaller than given measurement then correct gap with nail file.

Correct gap measurement; 0,22 - 0,30mm

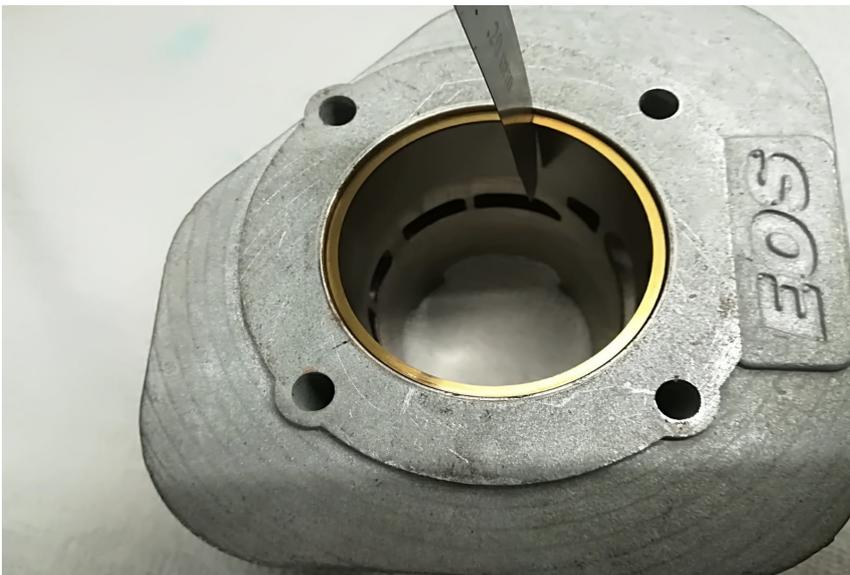
Torque figure for the cylinder head nuts; 14NM



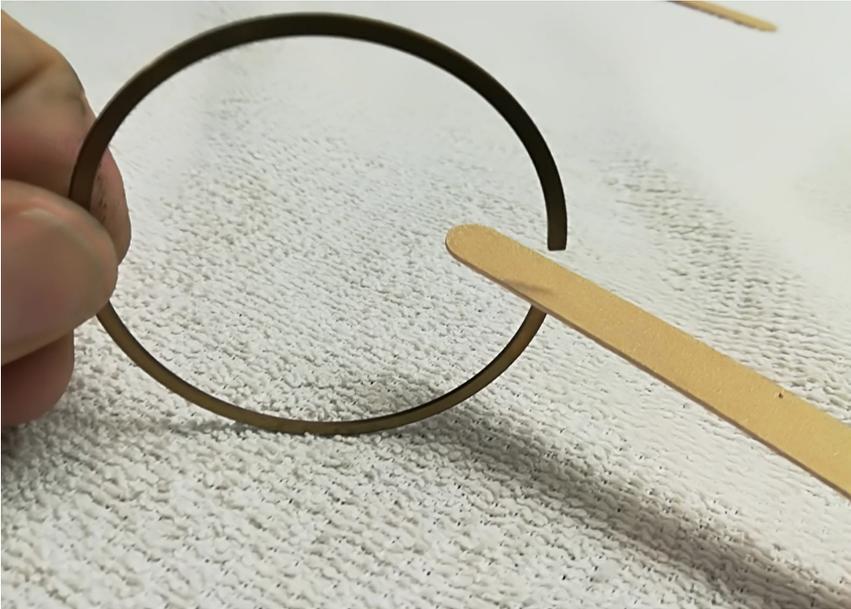
feeler gauge tool to correctly measure ring gap



place ring into the bore of the cylinder as shown



measure gap



if necessary correct
gap with nail file

Procedure and parts availability

In case of missing tools and/or doubt of proper procedure to measure and/or modify the piston rings, contact with your agent or EOS engine directly for the supply of a pair of new rings.