

After a very hectic couple of weeks and before I start to work this Sunday morning, I thought it would be a good time for a further update. The inventory of parts just continues to build. The box in picture #1, once again, is not art deco but rather finished pistons. The side view of a piston shows the amount of detail that must go into each item. Not only was a special tool made to make sure the ring grooves were perfect, but the top of each piston was “dished” for valve clearance and to reduce the compression ration a small amount. Although, the combustion chamber of the heads is an exact scale replica, and if you remember a comment I made earlier “volume does not scale down”, then you can readily see why the pistons needed to be dished. Not only does it reduce the compression ration to 8.25 to 1 but in the unlikely event of a “valve float”, the valves would never hit the top of the pistons. Obviously this would be catastrophic for the engine and would result in major damage. Just one more thing to think about! The bottom of each piston (picture #3) must also be machined to allow for the connecting rod and reduce the weight. Several customer have asked why the oil holes return holes were so large – the answer, once again is, the molecules of the oil cannot be scaled down and when added to the high piston speed it is very difficult for the rings to scrape down the walls of the cylinders and return all the oil back to the pan. Keep in mind, controlling the oil in this engine took me almost 9 months of intense engineering, design, sleepless nights, long days, and modifications, to solve.

The lifters in Pic #5 have all been heat treated, finish ground, and ready for installation. Pic #4 is a close-up of a finished lifter.

Pic #6 is not of a bunch of scrape but rather “slugs” which were used to create the water pump pulleys. The final three pictures so the finished results. As the saying goes, “you need to crack some eggs to make an omelet” .

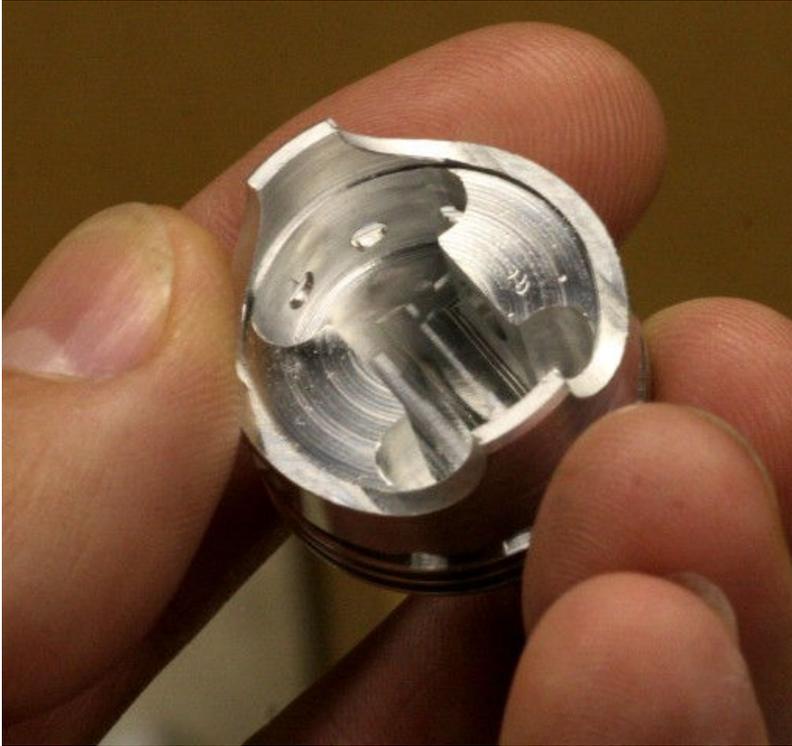
Pic #1



Pic #2



Pic #3



Pic #4 (Finished lifter)



Pic #5 (Lifters)



Pic #6(Water pump pulley blanks)



Pic #7 (Water pump drive pulleys)



Pic #8



Pic #9

