**CAD PROJECT**

**REPORT 1** *Student number: 9053297*

We got the 12 parts of the engine, along with the model assembly of the engine and sub-assembly crankshaft. In the whole assembly, we can see three orthographic figures of assembly and BOM along with 27-part numbers and description and materials, and mass.

**Tasks and problems**

For the first week, I do model 12 parts that are used in assembly for later in the week. There are challenges while doing the parts. Later, we revised the parts drawing and solved it in the end.

Mostly we use Aluminum 6061 and stainless steel and wood for just a stand.

Before the full assembly for the next week, I did modal all 12 parts, and after reviewing the parts, some parts of the material were missing and were assigned later. Correctly dimension the parts. There are many ways to do one thing for drawings. Doing more practice to improve.

**Drawings**

While doing the parts. All the geometrical shapes of the drawings are the same. It makes it easy to do in a short time. However, drawing of the flywheel and its ring was a little challenging. We solved it later after revising the drawing. Some of the parts were not fully defined, but I tried to solve them.

**Features**

Crankcase was a little more challenging for me because it has a lot of holes in it, and quite hard to figure out the holes. Feature hole, I haven’t used them. I am learning. For the parts we figure out and modal a crankcase.

While doing the parts gather information In class and asked the professor about the problems.