# We need a list of reasonable columns with non-null values:

maker, model, mileage, manufacture\_year, engine\_displacement, engine\_power, body\_type, stk\_year, transmission, door\_count, seat\_count, fuel\_type, price\_eur

# Remove all cars with price of 1295.34. This seems like a default value or something and it is the price for electric, lpg, and CNG vehicles. There are 673623 cars with this price.

# We need at least 12 non null values in each row. This yields around 1,468,236 cars.

Nulls Out of 15

0 5188

1 332598

2 1130450

3 619227

4 522809

5 268050

6 225938

7 199000

8 126744

9 88750

10 29882

11 4276

Name: index, dtype: int64

# Replace None with nan.

# Engine Displacement Minimum of 600 and max of 8500, else replace with nan

[Five Smallest Engine Capacity In Production Cars — The Smallest Will Surprise You! (drivespark.com)](https://www.drivespark.com/four-wheelers/2016/five-smallest-displacement-engines-production-cars/articlecontent-pf50713-019057.html)

[The 16 Largest-Displacement Engines You Can Buy Today | Feature | Car and Driver](https://www.caranddriver.com/features/g21784022/supersize-me-the-16-largest-displacement-engines-you-can-buy-today/?slide=16)

# Engine Displacement Replace NaN Values with unique value per year, manufacturer or model, or take average. Only 5069 values to be replaced.