

the engine room. The above cost is for air delivered from the compressor for fuel only, that is, the cost of oil, labor and interest on cost of plant has not been considered. The above machine has duplex steam cylinders 20 inches diameter by 48 inches stroke.

Low pressure air cylinder 28 inches by 48 inches.

High pressure air cylinder, 16 inches by 48 inches.

Indicated horse power, 310.

We have the following from the same paper by Mr. Wm. Forsythe of the C. B. and Q.R.R.

We have indicated the engine with the air compressor when it was compressing air to eighty pounds and found that it required forty horse power. We get a horse power with our Corliss engine with $4\frac{1}{2}$ pounds of coal per hour and the air compressed consumes 204 pounds of coal per hour and at \$3.00 a ton the cost of 1,000 cubic feet of free air compressed to 80 pounds, is 10 cents. With coal at \$1.50 a ton it is, of course, only 5 cents per 1,000 cubic feet.

The above are the only notes I have as to the relative cost of compressed air. They are very vague and little data has been accumulated on this subject. I trust that the next paper given on compressed air I will be able to lay before you a more complete estimate as to the actual cost of compressing air.

Mr. Lewkowicz,—

May I ask a question of some of these gentlemen who have just been giving us the saving or increased economy by re-heating of air. We hear there is about twenty-five per cent. saving by the heating of the atmosphere, but we hear nothing about the cost of fuel used to heat up to that percentage. The cost of that fuel in comparison will give us the net percentage of increased power we have.

Mr. Geldart,—

From actual tests made they have been able to produce on one pound of coal one and a half to two additional horse power.

Mr. Jefferis,—

I have not been using compressed air and have not been in any shops for the past seven or eight years where they use it, therefore, I would not like to say anything on the subject. However, I would like to hear from some of the men who are having some troubles with it.

Mr. Burrows,—

Would it not be well to hear from the Street Railway people?