

Mr. Wickens,—

Superheaters were first applied to locomotives as an experiment, and they were found to work all right. Superheaters cannot be applied any old way. Like everything else they have got to be properly applied if they are to be satisfactory.

I do not think it will ever be possible to have a fixed plan of applying superheaters to plants, each particular case will have to be studied out and the superheater applied according to the requirements of each case.

In Germany ten years ago it was a big thing to superheat up to 90 degrees, now they are adding 200 and 300 degrees of heat and using steam as high as 600 and 800 degrees.

I was unfortunate in not being able to get more data in regard to the application of superheat to locomotives. I was hoping to get some, but, unfortunately, have not been able to do so.

Mr. Marshall Wright,—

In regard to lubrication. We have two Grand Trunk Pacific engines to which have been applied a graphite lubricator.

I saw a piston drawn the other day and I can only say that I have never seen a prettier looking piston drawn from an engine.

The piston rings after a while take on a sharp edge, but they are taken out and after the sharp edge is removed they are as good as ever again.

Mr. Barron,—

In regard to the statement you read out. There were two methods of superheating, one had an individual superheater, and the other superheated the steam with the same heat that generated the steam.

I should think if the superheater were placed on the chimney side of the tubes it would be better as you would then be able to heat the boiler and use the gases coming through the tubes for the superheater without detracting from the gases any of the heat that could be used for heating the boilers to generate the steam, but if the superheater uses the heat from the gases before they pass through the flues it would appear to me that the separate superheater was the better.

Where is the superheater placed at the back end of the tubes or in the firebox? If the boiler is properly constructed I should think that all the heat generated in the firebox would be required to generate the steam, such being the case, is there sufficient heat going up the chimney to operate the super-