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## TORONTO'S NEW PUMPING ENGINE.

The new Coupled Geared Engine, lately built and put into the water works pumping station at Toronto, has confirmed our predictions of its behaviour.

It has neither pumped the stipulated quantity of water, nor given the guaranteed duty, and in point of satisfaction and efficiency, is a failure.

We heartily sympathize with the contractors, who thought, no doubt, of establishing a reputation for themselves in this question; but they have unfortunately failed, and have nobody but themselves to blame.

They were warned and cautioned against espousing the design, but they persisted in ignoring well-meant advice, and foolishly followed the dictates of prejudice, pride, passion and ignorance.

As the engine has actually been completed and erected, we have no doubt but that, after a good deal of aldermanic jugglery, the contract will ultimately be accepted.

The adoption of this particular engine by the city of Toronto has proved to the whole of Canada, England and the United States that her influential and official advisers are extremely incapable and unworthy of confidence.

Toronto can no longer be looked upon as an example on such questions, but, on the contrary, she has heaped discredit and shame on Canadian engineering, not because her workmanship is inferior, but because Canada's able and well-known engineers and experts were studiously ignored, and their advice and opinions disregarded.

We pointed out that if a correct test was made a duty of 60 millions foot pounds could hardly be obtained, whereas this duty, with modern and well designed engines, could be doubled, which means that Toronto has to pay, during the lifetime of this machine,

\$1 for water which should cost only one half of this, or 50 cents.

The citizens of Toronto can hardly realize what a loss they will have to suffer, and what an unsatisfactory machine they will possess, by accepting this miserable pumping engine.

Many of Toronto's best citizens had hoped that, in view of the past experience of the water works, and the terrible and continued loss of their present Worthington Engines, that every care and attention would be paid to securing, without the slightest shadow of a doubt, one of the best, most economical working and efficient pumping engines that could be designed and made, but they have been doomed to sad disappointment.

It is, therefore, high time enquiring the why and the wherefore of all this.

From statistics lately gathered in England, regarding the iron trade, it appears that the iron trade manufacture has been steadily declining for years. No doubt this is the case, and caused by the colonies becoming more independent of England, and manufacturers themselves.

Canada is perhaps the largest manufacturing colony of England, but still imports largely from England and the States, etc. She is blessed with rich deposits of iron ore, but has, unfortunately, no corresponding deposits of coal, conveniently located to many of these iron deposits. Time and skill may, however, in part overcome these disadvantages, and we see no reason why the manufacture of pig and finished iron should not become more general, as coal is allowed in from the States free of duty; but one great fault lies in the fact that Canada requires so little iron, and the States could not import from us in the face of such a high duty as theirs—consequently we are forced to allow ore to be mined here and sent over to the States for smelting and manufacturing purposes.

It seems too bad that Canada should throw away so much of her valuable raw material, and only get the small share of profits of the land and the mine; while our neighbours get the material and the large profits

of smelting and manufacturing generally.