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All made from 20th Century fine worsted.

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OBJECTION IS TAKEN

BY PROF. BURROUGHS TO FIRE UNDERWRITERS' REPORT.

Concerning Insufficiency of the Waterworks Boilers — Prof. Burroughs Shows the Absurdity of the Inspector's Statement.

Kingston, Aug. 18.—(To the Editor): There is one point in the report on the Waterworks equipment, submitted by Inspector Wilson of the Canadian Fire Underwriters' Association, and published last Friday in the local papers, to which the undersigned takes objection, viz.: the remark regarding the insufficiency of the boilers.

To state, as Inspector Wilson does, that, "at present you have not even by operating both boilers, sufficient steam to run either of the pumps at full capacity is, to say the least, absurd." The undersigned therefore wishes to prove to the people of our city with facts and figures, which, by the way, Inspector Wilson refrains from doing, that such a state of affairs does not exist, and that either boiler at the Waterworks pumping station is quite capable of generating more than enough steam to supply either engine even if working under a greater load than at present.

Since Inspector Wilson does not give any reason for stating that the boilers have insufficient capacity, it is difficult to know how he arrives at this important conclusion. He must have made a great big guess or he may have worked on the basis of a certain number of boiler horse power for each engine horse power, which method is about as good as a guess, since there is absolutely no friction between the two quantities mentioned.

The following explanation of these terms will, no doubt, make them plain to those not acquainted with engineer work:

The term "boiler horse-power" is purely arbitrary, being an approximate measure of the size, capacity, value or "rating" by which measure it may be described, advertised, or bought and sold. No definite value can be given to this measure which varies largely with local custom, or individual opinion of the makers. Some makers, for example, decide to use twelve square feet of water-heating surface as representing a boiler horse-power and they advertise or sell a boiler having 1,200 square feet of water heating surface as a 100 horse-power boiler. Another manufacturer might advertise the same boiler as a 130 horse-power boiler, because he uses 10 square feet to represent one boiler horse-power.

The boiler-maker, therefore, "rates" the capacity of the boiler on the basis of "square feet of heating-surface."

The engineer has a different basis from which he reckons the actual performance of the boiler. "The evaporation of 34.5 pounds of water per hour from a feed-water temperature of 212 degrees Fahr. into steam at the same temperature" is the basis adopted by the American Society of Mechanical Engineers for calculating the horse-power of a boiler, from the actual water evaporated per hour.

The relation between the two methods is not at once apparent, but when one considers that under ordinary conditions a boiler of the type in question will evaporate from 2.05 to 3.0 pounds of water from and at 212 degrees Fahr. per square foot of heating surface per hour, the relation is readily determined; thus, if the evaporation is 2.87 lbs. per square foot of heating surface per hour, and 12 square feet of heating surface is the boiler's "rating" per horse power, the water evaporated per hour will be 34.5 pounds, or the engineer's "rating."

Since the water heating surface of one of the boilers at the Waterworks plant is 170 square feet, its "rated" capacity is 1470 divided by 12, or 122 boiler horse power. This boiler would have to evaporate 1470 x 2.87, or 4225 pounds of water per hour from and at 212 degrees Fahr. to develop its "rated" horse power.

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ed, the available draft at damper, unless other stated, being not less than one-half inch water column." Boilers of the commercial types generally have overload capacity considerably in excess of the 33.3 per cent. here specified. Some boilers are being operated continuously under loads double those for which they were intended, and triple outputs have been obtained in a few instances.

By working the boiler in question at "rated" capacity which could be done without the least difficulty, it would evaporate 4,225 pounds of water per hour, from and at 212 degrees Fahr., and if worked at 33.3 per cent, over, it would generate 5,630 pounds of steam per hour.

Inspector Wilson claims that the two boilers operating together will not supply even one pumping-engine. The following figures will show that the boiler just described will supply more than enough steam for the engine in the Waterworks plant, even under the most exacting conditions:

During recent test, this engine developed 114.3 indicated horse-power, and use for pumping this was 2,829 lbs. of steam (this includes steam for auxiliaries, steam lost through leakage and condensation). This works out to about 19.5 lbs. of steam per indicated horse-power per hour. Now, if it should be necessary for the engine to develop 180 indicated horse-power of an increase of about 25 per cent over the present load, the steam consumption would not exceed 25 lbs. per indicated horse-power per hour (steam for auxiliaries, etc., included), therefore the total of 25 lbs. per hour would be 4,500 lbs., and the boiler could, according to the figures above, supply this when working at only 7 per cent. overload.

The total "rated" capacity of the boilers at the Waterworks plant is about 230 boiler horse-power, and Inspector Wilson states that these will not supply enough steam for an engine developing 144.3 indicated horse-power, even with such an efficient engine as the Inglis, which only uses 19.5 lbs. of steam per indicated horse-power per hour.

According to Inspector Wilson's figuring, 8 boilers, each having a "rating" of 114.5 boiler horse-power, would be required to meet the demands of the steam turbine. This in fact shows the absurdity of Inspector Wilson's statement. Yours truly, CHAS. W. BURROUGHS, Mechanical Engineer.

NEWS FROM OVERSEAS

PTE. ERNEST SMITH TELLS OF TYRES EXPERIENCES

Pte. "Jack" Dyer, 21st Battalion, Writes a Young Lady About Receiving a Pair of Socks.

Miss Luella Darling, Sydney, has received the following letter from Pte. Ernest Smith, who went overseas with the First Canadian contingent:

"We have just come from the trenches. Things were pretty quiet on the military point of view, but for me they are lively enough. We were in the trenches for eight days, the same as the other lads, and I had all my other work to attend to, so I was kept busy the whole time. On the night of June 30th I went out with the rest of the fellows and dug an advanced trench. It was dug in a general in charge of our army corps said that it was the finest piece of work that he had ever seen done in the time on the whole front. You bet we felt proud of it, but I can tell you that it caused many aching backs and wet shirts but that was a lot better than a German bullet.

"You have asked me to tell you of my time at Tyres Well on Thursday night, April 22nd, and under sealed orders to stand to and move to Hill 60, at a minute's notice. Things were very quiet seemingly, and for that reason I and my chum went to a near by village. While there French, Belgian civilians and soldiers came running, stating that the Germans were using gas and were coming in by the thousands. I saw an aeroplane over us and expected at any minute to see shells being fired at us. Scouting danger, I and my chum hastened back to our billets, and found the company getting ready to move on. We harnessed ourselves up and fell in but as definite orders had not come as yet we were dismissed. Again we were formed up and lay in the corner of a field until 9.15, and the machine-gun was the rendezvous but we certainly had no idea where we were going but were moving up towards the trenches. We extended out and were moved forward for some time, but we did not know what was on. I could feel the effects of the gas and saw a fellow out of the Kilites looking for his best friend—his rifle. We passed him as the gas was getting thicker but not thick enough to do great harm. We received orders to change our position. We took this position, but it was not long before our platoon officer came and said, 'now boys dig for your life.' I never worked as hard in my life as I did then as I was cutting sods of earth as fast as five men who put them in place. I was too busy to take any notice of what was doing, but it appears that an officer (now dead) and some men had gone in an empty house just in front of our lines, and found some Germans and one wounded man among them. 'I had Bryce Davidson of Kingston who is a German prisoner of war with me then. We then received orders to open out and I went into the corner of a field with another fellow. (I think it was Bryce Davidson.) A few feet away from the Germans but only stayed there a little while as things were getting hot. Two men had been wounded in the meanwhile and to get them

back again to safety it meant that two men should go out so a Kingston lad named E. J. Clarke went along. Clarke was hit in the boot and the same bullet hit him in the arm but that was not noticed in the heat of the fight. We then returned back to the house and, saw my chum for the last time. I stayed in the house until 11 o'clock, shooting all the while so you can imagine that I bowled down some of them."

Received The Socks.

On Wednesday Miss Edna Parkin daughter of Mr. and Mrs. Earl Parkin, Division street, received the following letter from Pte. "Jack" Dyer, of the 21st Battalion.

"Received a pair of socks with your name and address in them. Many thanks for the same. Expect to leave for the front shortly. Hope to reach Berlin and be able to return to Canada some day."

Edward McDermott Writes.

James McDermott, 289 Johnson street, on Wednesday received a letter from his son, Edward, who is attached to the Motor Transport Column in France. The letter is dated from Arrondissement, August 3rd, and states in part:

"We have a new bunch of Kingston lads here now, although they are not in our division. They are reinforcements for the Princess Patricia from Queen's University. Although some of them are quite young, they are about as smart a body of men as the reinforcements have brought so far. I was surprised to see young 'Bill' Nickle among them. 'Jack' Mills and Connerty were along, with quite a few others. They are in the 27th English Division, and went into the trenches last night. On our front things are about as quiet as at home. The only relief from the monotony are the raids of the German aeroplanes, which do no damage, but do not are storing up valuable information for the day. Our own flying corps is not asleep by any means. 'The country is now fairly jammed with British soldiers. The Australia Motor Transport has been here now for about ten days. They could not use them in the Dardanelles as the same here, although they are a fine lot of fellows, and have an excellent transport. 'The Russians are putting up a good fight, no matter if they are retreating. There will never be another retreat on our front. It is impossible.'"

R. C. H. A. Read the Whig.

Mrs. H. Huard, 221 Wellington street, received a letter Wednesday from her husband, Henry Huard, R. C. H. A. The letter, dated Aug. 5th, in which he said the R. C. H. A. had reached France safely, and was billeted in a chateau about forty miles from the firing line. At times they can hear the roaring of the guns plainly. He said the lads were all well and getting plenty to eat. His status when he gets the Daily British Whig every mail the fellows make a grab for it, so eager are they to read about home.

Gananoque

Aug. 19.—One of the finest lawn fetes of the season was held last evening at the Gananoque home of Mrs. D. C. Cowan, corner of Stone and Arthur street. It was of a military nature and was under the auspices of the Young People's Society of Grace Church assisted by the local branch of the Red Cross Society. The fete was decorated with tents of military style to represent the allied countries. Refreshments were served afternoon and evening. The Citizens' Band rendered a musical programme. The feature of the event was the presence of the pipe band of the 5th Battalion, Barrickfield, which paraded the town afternoon and evening and were generous with its offerings during the evening. Capt. Stetham, late of the Royal Canadian Dragoons, returned from France with an injured arm, attended to by a former resident of the town. Mrs. Alice Birchenough and family, Hamilton, are spending a short time in town with relatives and friends.

"A Pair of Socks."

"A Pair of Socks" will be at the Grand Opera House on Wednesday, Aug. 25th, coming from the Longacre Theatre, New York, where it has been running for nearly a year. It is an out-and-out farce, with ingenious situations seemingly funny. It has, besides, a pleasant love element to help along the development of the plot.

Parties Calling Fruit.

Justice of the Peace George Hunter has received a complaint from a woman who lives near the Grand Trunk outer station about parties stealing fruit out of her garden. The police have received many complaints about boys entering the gardens and cleaning all the apples off the trees.

Saturday, 2.15 P.M.

Thousand Islander leaves for special tour of 1000 Islands, passing all points of interest. Almost the last chance. Page 50c.

Probs.: Fine and a little warmer on Friday.

NEW FALL GOODS

ARRIVING DAILY!

Crisp new stocks of all that is to be fashionable for the fall and winter season of 1915.

NEW SUITINGS **NEW GLOVES**
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NEW VELVETS **NEW SUITS AND COATS**
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Special Sale Saturday

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Extra Special Cooked Ham

Reduced to **32c Lb.**

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READ DIRECTIONS CAREFULLY AND FOLLOW THEM EXACTLY.

What Thin Folks Should Do To Gain Weight.

Physician's Advice For Thin, Underdeveloped Men and Women.

Thousands of people suffer from excessive thinness, weak nerves and feeble stomachs who, having tried advertised flesh-makers, food-lads, physical culture stunts and run-on creams, resign themselves to life-long slenderness and think nothing will make them fat. Yet their case is not hopeless. A recently discovered regenerative force makes fat grow after years of thinness, and is also unequalled for restoring the waste of sickness or faulty digestion and for strengthening the liver. This remarkable discovery is called Sarsol. Six strength-giving, fat-producing elements of acknowledged merit have been combined in this powerful preparation, which is endorsed by eminent physicians and used by prominent people everywhere. It is absolutely harmless, inexpensive, and efficient.

A month's systematic use of Sarsol should produce flesh and strength by supplying highly concentrated fat to the blood. Increased nourishment is obtained from the food eaten, and the additional fat that thin people need are provided. Leading druggists supply Sarsol, and say there is a large demand for it.

While this new preparation has given splendid results as a nerve-tonic, nervous people unless they wish to gain weight and vitality, it should not be used at less than one pound of flesh.

Cook's Cotton Root Compound

A safe, reliable regulating medicine. Sold in three degrees of strength—No. 1, \$1.00; No. 2, 50c; No. 3, 25c per box. Sold by all druggists, or sent prepaid on receipt of price.

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1/2c Per Mile West of Winnipeg.

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KINGSTON CEMENT PRODUCT

Yes, brick Flower Vases, Tile, Cap per Blocks. We also make Cement Grave Vaults. Estimates given for all kinds of Cement Work.

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"Going Trip West" \$12.00 to Winnipeg.
"Return Trip East" \$18.00 From Winnipeg.

GOING DATES:
August 19th and 26th—From Kingston, Tichenor, Jct., Scharbot Lake, Renfrew and East in the Provinces of Ontario and Quebec, including intermediate stations and branches.
August 21st and 28th—From Toronto, South St. Marie, Ont. and East in the Province of Ontario, including intermediate stations and branches, but not East of or including Kingston, Tichenor, Jct., Scharbot Lake or Renfrew.
August 24th and 31st—From Toronto and stations West and North in the Province of Ontario, but not including stations on the North of Sudbury and Sault Ste. Marie, Ont.

Particulars from F. CONWAY, C. A. City Ticket Office, corner Princess and Wellington Streets, Phone 197.

Canadian Northern Railway

30,000 Harvesters Wanted

EXCURSIONS to Winnipeg \$12.00

THROUGH SERVICE Between Quebec, Ottawa, Toronto and intermediate points giving good connections to the West.

Choice of destination left to the excursionist. Half-cent a mile from Winnipeg west to Regina, Saskatoon, Warman, Swan River, Calgary, Edmonton, Red Deer, Tannis and to all other points on the Canadian Northern Railway.

Returning, half-cent a mile from all points on C.N.R. to Winnipeg, \$18.00 from Winnipeg to original starting points.

GOING DATES:
Aug. 19 and 26—From all stations Kingston, Harrowsmith and east in Ontario and Quebec on the Canadian Northern Railway.

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Write for Homeseekers' and Settlers' Guide, showing 35,000 free homesteads awaiting the settler. For full information apply M. C. Duns, City Agent, or R. H. Ward, Station Agent.