

# R. D. WOOD & CO.

PHILADELPHIA, PA., U.S.A.

**Water and Gas Works Supplies,  
Cast Iron Pipe and Castings,  
Mathews Hydrants and Valves,  
SUCTION PRESSURE GAS PRODUCERS POWER PLANTS**

**MICHIGAN WHITE CEDAR**

Best to Last. 150,000 Poles in Stock  
100,000 Ties at our Sorting Yards

We have been in the Cedar Pole and Tie Business 28 years. 50,000 Trolley Ties at Bay City Yard.

**W. C. STERLING & SON CO.,—MONROE, MICH.**

Yards: BAY CITY, OMER, BOYNE FALLS, CASS CITY and MONROE

**POLES AND TIES**

## MONTREAL STEEL WORKS, Ltd.

Manufacturers of

### Steel Castings

Acid Open Hearth System

SPRINGS, FROGS, SWITCHES, SIGNALS,  
FOR STEAM AND ELECTRIC RAILWAY

Canal Bank, Point St. Charles,  
MONTREAL.

**JEFFREY**

COAL CUTTING—ELEVATING—CONVEYING—WASHING  
MACHINERY—POWER TRANSMISSION—SCREENING—  
CRUSHING—DRILLING—HAULING—Write for Catalogs Series  
"U" and mention subjects in which you are especially interested.

THE JEFFREY MANUFACTURING CO., MONTREAL, QUE.



## Reason No. 3

Why you should subscribe for  
The Canadian Engineer :

It is the only engineering  
paper which publishes a mar-  
ket letter, with prices on ma-  
chinery and supplies.

(Continued from Page 45)

Ross, A. W. Holmested, T. A. Silverthorn. Berna Motors & Taxicabs, \$500,000; G. Russell, J. C. MacDonald, E. M. Lindsay. Standard Stock and Mining Exchange, A. J. Barr, W. T. Chambers, R. L. Cowan. Mines Finance Company of Canada, \$250,000; W. Thompson, W. M. Weeks, C. L. Rosevear. Cobalt Hydraulic Power Company, \$2,000,000; J. B. Holden, C. A. Grover, J. I. Grover. Niagara and Ontario Construction Company, \$40,000; E. Hendrick, B. B. Furre, A. P. Bell, New York. McIntyre & Taylor, \$20,000; E. C. Ironside, H. Riley, R. R. Perry.

### PIG IRON OUTPUT.

Pig iron production in Canada during 1908 totalled 563,672 tons, as compared with 581,146 tons in 1907, a decrease of 17,474 tons, or about 3 per cent.

In the first half of 1908 the production amounted to 307,074 tons, and in the second half to 256,598 tons, a decrease of 50,476 tons.

At Youngstown, Ohio, last year, the city water after leaving the filter plant had an average per centage of 98.34 of purity for the year, a very good efficiency for the filters. The annual report of G. R. Patton, superintendent of the filter plant, shows beyond this that during the year there was an estimated daily average of 6,612,000 gallons of water filtered at the plant. An average of 2,060 pounds per day of alum was used during the year. The daily average of bacterial points per cubic centimetre in the river water was 29,490 and in the filtered water 362 per cubic centimetre. The total rainfall for the last seven months of the year was 16.99 in.

Persons who are familiar with guarantees of steam consumption, which accompany sales of high speed engines, are aware that these guarantees are usually met under the conditions of shop tests. Particular interest, therefore, attaches to a report by Mr. F. W. Dean, mill engineer and architect, Boston, regarding a series of tests upon generating sets with various types of engines of moderate size which have been in operation for relatively long periods. With one exception the period of service ranged from 5,000 to over 30,000 hours. The results show that no engine realized economies which would have been guaranteed. Mr. Dean concludes that we are justified in thinking that most high speed engines rapidly deteriorate in economy, but that on the contrary, slower running Corliss or grid-iron valve engines improve in economy for many years. As it is difficult to see that the speed is the cause of this, it is reasonable to assume that it must depend on the nature of the valve.

**DOMINION BRIDGE CO., LTD., MONTREAL, P. Q.**

**BRIDGES**

**TURNABLES, ROOF TRUSSES  
STEEL BUILDINGS**

**ELECTRIC & HAND POWER CRANES  
Structural METAL WORK of all kinds**

**BEAMS, CHANNELS, ANGLES, PLATES, ETC., IN STOCK**