

CHILLED CAST IRON WHEELS

FROM

ARBOGA MECHANICAL WORKS.

SWEDEN.

Certificates:

1. *A. Taube*, Wenersborg 14:th November 1870.
2. *C. Hoffmeijer*, Copenhagen 10:th July 1872.

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1878.



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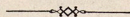
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3. *C. Berglund*, Köping 12:th July 1872.
4. *A. Taube*, Wenersborg 9:th April 1875.
5. *John Macrae*, Edinburgh 3:rd November 1875.
6. *A. F. Sundin*, Mariestad 29:th December 1877.



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Translation.

UDDEVALLA, WENERSBORG
AND HERRLJUNGA
RAILWAY.

I.

Wenersborg, the 14:th of November 1870.

C. W. OLSSON, Esq:r Civil Engineer,
Arboga.

In reply to your esteemed letter of the Fifth (5:th) Instant, I have herewith the pleasure to inform you that the Chilled Cast Iron Wheels of the last model have probably run more miles than any of the other wheels in use, as I attached them to waggons which are running daily, and which cover a distance of about five hundred and thirty (530) Swedish »mil»*) in the month.

Thus we have wheels of the later construction which have run upwards of Six Thousand (6000) »Mil» without our having discovered any apparent signs of wear, or otherwise found the slightest damage in them. The best proof that, for my part, I have full confidence in these wheels is evinced by the fact that I continue to give orders for them.

With distinguished esteem,

(Signed.)

A. TAUBE.

*) »Mil» = Mile. — 1 Swedish »Mil» = 11,653.290 English Yards about $6\frac{2}{3}$ Eng. Miles.

Translator's Note.

Translation.
COPENHAGEN
TRAMWAY COMPANY,
OFFICE OF THE
MANAGING DIRECTOR.

II.

Copenhagen the Tenth (10:th) day of *July* One Thousand
Eight Hundred and Seventy Two (1872).

In compliance with a request made to me by Mr
C. W. OLSSON, *Managing Director* of the *Arboga*
Foundry and Mechanical Works, I hereby certify that
the *Chilled Cast Iron Wheels* manufactured at Arboga
have been used on the tramways at this place since the
year One Thousand Eight Hundred and Sixty Seven (1867),
and continue to be so used with very satisfactory results,
and I consider them to be the best wheels we have had.
The American wheels we at first employed were not only
much more expensive, but heavier for the horses to draw.

In consequence of the favourable results attending
the use of the Arboga Wheels on the Tramways at this
place, these wheels have also been adopted by the Tram-
way Companies in London and Glasgow with the most
satisfactory results.

(Signed.)

C. HOFFMEIJER,
Managing Director.

III.

Having been requested by the Manager of the Arboga Mechanical Works, C. W. OLSSON, Civil Engineer, to declare my opinion concerning the Chilled Cast Iron Wheels furnished from the said works and used on the *Köping and Uttersbergs Railway*, I hereby state:

That the said wheels are used on this Line both for passenger Carriages and Goods Waggons. The freight capacity of the goods waggons being from One Hundred (100) to One Hundred and Sixty (160) »Centner»*), and the rate of speed from Two (2) to Two and Five Tenths (2.5) Swedish »Mil»;

That not a single wheel, which we have received from Arboga since the commencement of the year One Thousand Eight Hundred and Sixty Seven (1867) has started while in use;

That these wheels have very seldom had to be changed, and that many of them which have run from Five Thousand (5000) to Six Thousand (6000) Swedish »Mil» do not even yet show any defects in running.

The traffic on this Railway is carried on throughout the entire year.

Köping the Twelfth (12:th) day of *July* One Thousand Eight Hundred and Seventy Two (1872).

(Signed.)

C. BERGLUND,

Traffic Manager.

(Seal.)

*) »Centner» = Hundredweight. — 1 Swedish »Centner» = 100 »Skålpund» = 93.7147 lbs Avoir dupois. *Translator's Note.*

Translation.

UDDEVALLA, WENERSBORG
AND HERRLJUNGA
RAILWAY COMPANY
(LIMITED).

IV.

Wenersborg, the Ninth (9:th) day of *April* One Thousand
Eight Hundred and Seventy Five (1875).

C. W. OLSSON, Civil Engineer,
Arboga.

— — — — —
— — — — —
It is worthy of notice to observe how well the Cast
Iron Wheels held out during the severe cold that we have
experienced this winter. Only two of the cast iron wheels
have been injured, and these have suffered from their
construction being of the old description, narrow with
sharp edges, from which the pieces have flown out at the
edge. In contrast with this, a large number of wheels
made both of Bessemer Steel and of Iron, have given way.
— — — — —
— — — — —

With high esteem,

(Signed.)

A. TAUBE.

Copy.

EDINBURGH
STREET TRAMWAYS COMPANY

107 PRINCES STREET.
ENGINEERS' DEPARTMENT,

V.

Edinburgh 3:rd November 1875.

I have great pleasure in stating that the Arboga
Wheels and Axles have been in use upon these Tram-
ways for nearly four years, and that during that time they
have given every satisfaction.

(Signed.)

JOHN MACRAE.

Translation.

MARIESTAD—MOHOLM
RAILWAY BOARD.

VI.

Mariestad, the 29:th of December, 1877.

To the Arboga Mechanical Works.

On requisition I hereby declare, that the Cast Iron Railway Wheels from the Arboga Mechanical Works employed on the Mariestad Railway Line, have in every respect surpassed in quality other descriptions of similar wheels used here.

Two of the Goods Waggons of this Railway, provided with Wheels from the Arboga Mechanical Works, have run a distance of about Eight Thousand Five Hundred (8,500) Swedish »Mil» on the Line without the least defect or even wear having been observed in them. The wheels in question are considered here to be the best that can be constructed and in future will be exclusively employed on this Railway. And I certify the foregoing to be in full accordance with truth.

On Behalf of the Mariestad—Moholm Railway
Company Limited:

(Signed.)

A. F. SUNDIN,
Managing Director.
(Seal.)

*In fide*m Witness my hand and seal this Twenty Third (23:rd) day of May in the year One Thousand Eight Hundred and Seventy Eight (1878).

Stockholm.

George F. ApGeorge.

Translator.

This is to certify that the foregoing Translations and Certified Copy marked I, II, III, IV, V and VI have this day been signed, sealed, and attested in my presence by M:r GEORGE F. APGEORGE, Sworn Translator and Vice Consul of this Consulate, and that to the said translations all faith and credit should be given both in judicature and thereout.

British Consulate Stockholm this 23:rd day of May in the year 1878.

W. F. SEGRAVE.

