

Lloyd's Register of Shipping.

(Report on Machinery, No. 8178)Port GothenburgNo. 2280
/I.

ENGINE FORGINGS ^{AND} ~~OR~~ CASTINGS.

I have to report that the Forgings & Castings, as herein described, manufactured by Messrs. A.-B. Lindholmen-Motala of Motala Verkstad for the Engines No. 454⁹⁶⁴/₉₆₅ being constructed by Messrs. A.-B. Götaverken of Gothenburg for the Ship No. 488, being built by Messrs. Blohm & Voss of Hamburg have been inspected by me as set forth below, and found to be, so far as can be seen, sound and free from defects. These have been despatched to Gothenburg.

Mark on Forgings or Castings.

Lloyd's

No. 4689GA 21.5.30

Gothenburg, 23rd May, 1930,

AFTER PART :

	2 CRANK WEBS webs with counter weights FORGED	2 CRANK WEBS. 2 CRANK WEBS.	2 CRANK WEBS. 2 Crank webs with counter weights.	4 JOURNAL PINS 4 journal pieces 3 crank pins FORGED
Material* ...	S.M. Steel.	S.M. Steel.	S.M. Steel.	S.M. Steel.
How made ...	Cast	Cast	Cast	Forged.
If Annealed ...	Yes	Yes	Yes	Yes
Dimensions, Forgings	246 x 660 mm.	246 & 660 mm	246 x 660 mm	Diam. 404 mm.
Weight, Castings	—	—	—	—
Progress on { Inspection }	Unmachined and finished.			Rough turned & finished.
Tests on Standard Test Pieces.				
Tensile Test— Tens per square inch	48.0 & 49.8	48.0 & 49.2	49.5, 49.2, 49.2	50.5 & 49.2
Extension per cent	34.0 & 31.0	34.0 & 33.0	32.0, 32.0, 31.0	29.0 & 31.0
Cold Bending Test— Angle before fracture	120° good.	130° good.	120° good.	180° good.
Dates when Inspected	9.4 & 21.5.30	22.3 & 21.5.30	2.4. & 21.5.30	2 & 9/4, 21/5/30

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Drop and hammer tests good.

(Continued).

Fee (if any chargeable) £ —

To be paid at Gothenburg.

* If of wrought iron, state whether piled bars or scrap. If of steel, state whether made by the Open Hearth process.

Rpt. 7.

For the information of Surveyors and the Committee only.

Received at _____ Office, _____ 10

Lloyd's Register of Shipping.

(Report on Machinery, No. *8178* Port *Gothenburg*)

No. *2280* ^{AND} ~~II~~ ENGINE FORGINGS ~~OR~~ CASTINGS.

I have to report that the Forgings ~~&~~ Castings, as herein described, manufactured by *Messrs. A.-B. Lindholmen-Motala* of *Motala Verkstad* for the Engines No. *454* ^{*964*} ~~*765*~~ being constructed by *Messrs. A.-B. Götaverken* of *Gothenburg* for the Ship No. *488*, being built by *Messrs. Blohm and Voss* ~~*en-Mo*~~ of *Hamburg* have been inspected by me as set forth below, and found to be, so far as can be seen, sound and free from defects. These have been despatched to *Gothenburg*

Mark on Forgings or Castings.

Lloyd's
No. *4690*
GA *21.5.30.*

Gothenburg, 23rd May, 1930.

L. J. Mander

FORWARD PART:

	2 CRANK SHAFTS 2 CRANK webs with counter weights FLYWHEEL SHAFT.	2 CRANK SHAFTS 2 CRANK WEBS.	2 CRANK SHAFTS 2 Crank webs with counter weights.	4 JOURNAL SHAFTS 4 journal pieces 3 crank pins. SCREW SHAFT
Material* ...	S.M. Steel.	S.M. Steel.	S.M. Steel.	S.M. Steel.
How made ...	Cast	Cast	Cast	Forged.
Annealed ...	Yes	Yes	Yes	Yes
Dimensions, Forgings	246 x 660 mm	246 x 660 mm.	246 x 660 mm.	Diam. 404 mm.
Weight, Castings	—	—	—	—
Progress on Inspection }	Unmachined and finished.			Rough turned & finished.
Tests on Standard Test Pieces.				
Insile Test— Tens per square inch	53.0 & 49.5	51.7 & 47.6	53.0 & 45.8	50.5 & 49.2
Extension per cent	29.0 & 36.0	29.0 & 34.0	29.0 & 36.0	29.0 & 31.0
Cold Bending Test— Angle before fracture	120° good.	120° good.	130° good.	180° good.
Tests when Inspected	22/3, 2/4 & 21/5/30	26/2, 6/3, 21/5/30	22.3 & 21.5.30	2, 9/4 & 21/5-30.

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Drop and hammer tests good.

One compressor web: Tens. test 49.5 Kg/mm² Elong. 29.0% Bend test: 180° g.
Lloyd's No. 4691 GA 21.5.30.

24 coupling bolts:

50.5 Kg/mm²

38.0 %.

Charge (if any chargeable) £ —

To be paid at *Gothenburg.*

* If of wrought iron, state whether piled bars or scrap. If of steel, state whether made by the Open Hearth process.