

For the information of Surveyors and the Committee only.

Received at _____ Office, _____ 10

Lloyd's Register of Shipping.

(Report on Machinery, No. 8259 Port Gothenburg)

No. 2354

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

I have to report that the Forgings ~~or~~ Castings, as herein described, manufactured by Messrs. A.-B. Lindholmen-Motala of Motala Verksstad for the Engines No. 45491 ¹⁹⁶² being constructed by Messrs. A.-B. Götaverken of Gothenburg for the Ship No. 335, being built by Messrs. Caledon S.B. & E. Co., Ltd. of Dundee 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.

Forgings ~~or~~ Castings.

Gothenburg, 2nd September, 1930,

Lloyd's

No. 6508

EM 29.8.30

E. Magnusson.

AFTER PART :-

	2 CRANK SEAXX Webs with counter weights FLYWHEEL SHAFT.	TEGUEX XSHAXX 2 CRANK WEBS.	INTERM KKKKXKXSHAXT. 2 CRANK WEBS.	USE SHAXT 2 CRANK WEBS with counter weight SCREW SHAFT.
1* ...	S.M.Steel.	S.M.Steel.	S.M.Steel.	S.M.Steel.
ade ...	Cast	Cast	Cast	Cast
aled ...	Yes	Yes	Yes	Yes
ions, Forgings	As per plan.	As per plan.	As per plan.	As per plan.
Castings ...	--	--	--	--
s on } ection }	Unmachined and finished.			
on Standard it Pieces.				
Test— per square inch	47.3 - 49.8	48.3 & 53.9	48.9 & 49.5	49.8 - 49.5
ision per cent ...	35.0 - 33.0	35.0 & 31.0	35.0 & 32.0	30.0 - 34.0
ending Test— before fracture ...	120° good.	120° good.	120° good.	120° good.
then Inspected	2.4 & 29.8.30	10, 21/5, 29.8.30	10.4 & 29.8.30	28.5 & 29.8.30

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:-

Drop and hammer tests good.

/CONTINUED/

5 journal pieces	Tensile test.	Extension.	Bend test.	Dates.
4 crank pins	48.6 & 48.0 kgs/mm ²	34.0 & 38.6 %	180° good.	21.5 & 29.8.30

Diam. 350 mm.

If any chargeable) £ —

To be paid at GOTHENBURG.

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

004055-004061-0214 1/2

Lloyd's Register of Shipping.

(Report on Machinery, No. 8259 Port Gothenburg)No. 2354 ENGINE FORGINGS ~~OR~~ CASTINGS.

/II

I have to report that the Forgings ~~OR~~ Castings, as herein described, manufactured by Messrs. A.-B. Lindholmen-Motala of Motala Verkstad for the Engines No. 453⁹⁶¹₉₆₂ being constructed by Messrs. A.-B. Götaverken of Gothenburg for the Ship No. 335, being built by Messrs. Caledon S.B. & E. Co., Ltd., of Dundee

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.

Report on Forgings ~~OR~~ Castings.

Lloyd's

No. 6506/7EM 29.8.30Gothenburg, 2nd Sept 1930E. Magnusson.

FORWARD PART:-

	2 CRANK WEBS webs with counter weights	2 CRANK WEBS.	2 CRANK WEBS with counter weights.	4 journal pieces 3 crank pins.
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	As per plan.			Diam. 350 mm.
Weight, Castings	—	—	—	—
Progress on { Inspection }	Unmachined and finished.			Rough turned & finished.
Tests on Standard Test Pieces.				
Tensile Test— Kgs per square mm	47.3 - 49.5	48.9 & 49.5	48.0 - 52.3	48.6 & 48.0
Extension per cent	35.0 - 32.0	35.0 & 32.0	34.0 - 28.0	34.0 & 38.6
180° Bending Test— Angle before fracture	2, 120° good. 30	10 120° good. 30	120° good.	180° good.
Tests when Inspected	2, 10/4, 29.8.30	10.4 & 29.8.30	10, 15/4, 29.8.30	21.5 & 29.8.30.

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:-

Drop and hammer tests good.

1 compressor web: Tensile test, 46.4 kgs/mm² Extension. 28.6% Bend test. 180° good. Lloyd's No. 6506 EM 29.8.30

22 coupling bolts: 49.8 kgs/mm² 36.0% 180° good.

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.

004055-004061-0214²/₂