

Rpt. 4e

and give possible Date of writing report 14. 10. 63. Received London Port No. 867  
ith Survey held at Patricroft No. of visits in shop 6 First date 18. 9. 63. Last date 11. 10. 63.

FIRST ENTRY REPORT ON MAIN ENGINE REDUCTION GEARING

Name of Ship Owners  
Hull built at Hamburg by Messrs. Wiedmann & Walters Yard No. 65 Year 1963  
Main engines made at Patricroft by L. Gardner & Sons Ltd. Engine No. 140519 140520 140521 140522 1963  
Reduction gearing made at Patricroft by L. Gardner & Sons Ltd. Gear No. 15260/1 15262/3 15264/5 15266/7 Year 1963  
Type of engine with which gearing is to be used State if for Class 1 or 2 ice strengthening

The following particulars are to be given as fully and clearly as possible. Wording not applicable should be cancelled by a black line.

Description of gearing, including reversing arrangements and clutches, if any, and No. of sets (state if ball or roller bearings)

Single Helical reversed by friction Clutch

If single helical, what is the position of the gear thrust bearing?

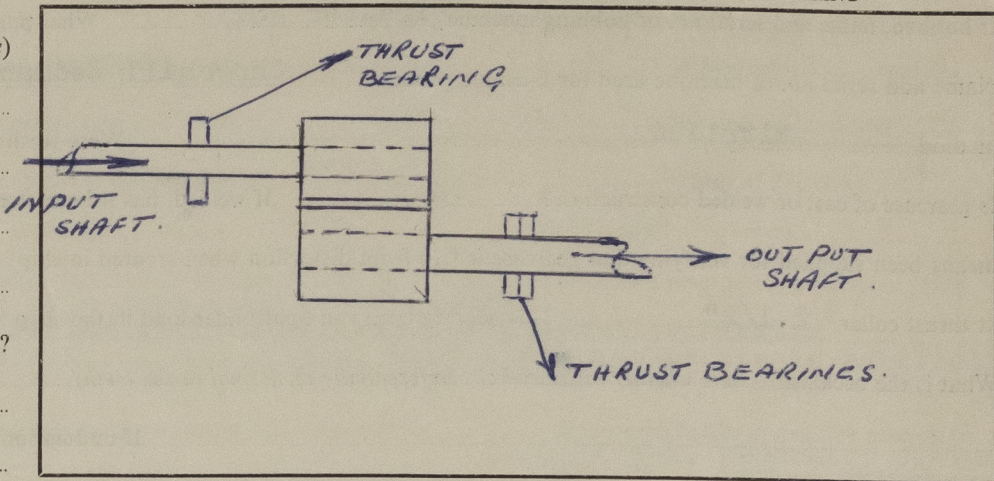
Ford end of pinion shaft

Helix angle, primary 12°RH secondary 12°LH

Type of involute tooth form 6DP

Approved maximum total S.H.P. 78.2 at 1300 R.P.M. of main wheel

DIAGRAMMATIC SKETCH SHOWING ARRANGEMENTS OF GEARING



PINIONS

Maximum S.H.P. to be delivered to primary pinions

Revolutions per minute

Diameter of pitch circle, inches/mm.

No. of teeth

Total width of face, parallel to axis, inches/mm.

Width of gap, inches/mm.

Diameter of shaft at bearings, inches/mm.

No. of bearings

Span of bearing centres, inches/mm.

Material, state nominal composition and heat treatment

EN40B/T Nitrided at 525°C for 40

Hrs. Surface hardened 800-900 HVID

Tensile strength, tons per sq. in./kg. per sq. mm.

QUILL SHAFTS

Diameter, inches/mm.

Material, state nominal composition

Tensile strength, tons per sq. in./kg. per sq. mm.

FLEXIBLE COUPLINGS

Type of coupling

Material, driving member

Tensile strength, tons per sq. in./kg. per sq. mm.

Material, driven member

Tensile strength, tons per sq. in./kg. per sq. mm.

Do couplings permit axial float of pinions?

Have primary pinions been dynamically

balanced?

Have secondary pinions been dynamically or statically balanced?

WHEELS

Revolutions per minute

Diameter of pitch circle, inches/mm.

No. of teeth

PRIMARY			MAIN
HP	MP	LP	
			665
			9.0306
			53



