

Date of writing report 6th June, 1963 Received London Port HANNOVER No. 1411
Survey held at No. of visits in shop 6 First date 27.11.62 Last date 27.5.63

FIRST ENTRY REPORT ON MAIN ENGINE REDUCTION GEARING

Name of Ship Owners
Hull built at Bremen-Hemelingen by Rolandwerft GmbH. Yard No. 904 Year 1963
Main engines made at Köln by Klöckner-Humboldt-Deutz AG Engine No. Year
Reduction gearing made at Hameln by Eisenwerke Reintjes GmbH Gear No. 30581/82 Year
Type of engine with which gearing is to be used SBF 12 M 716 Type WUö 260/3.5:1
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 reduction: Spur wheel geared
multiple disk clutch operated by oil
press. Reverse side: Planet bevel gear
and band bracke operated by oil press.
Oil pump: gear driven.

Ball and roller bearing

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

Self-aligning roller bearing on out-
put shaft

Helix angle, primary 18° ✓ secondary

Type of involute tooth form corrected press. angl

PINIONS Shaft and wheels case

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 cone bearings, inches/mm. ...

No. of bearings ...

Span of bearing centres, inches/mm. ...

Material, state nominal composition and heat treatment

Shafts forged

bevel and sp ur gear wheels case

hardened

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?

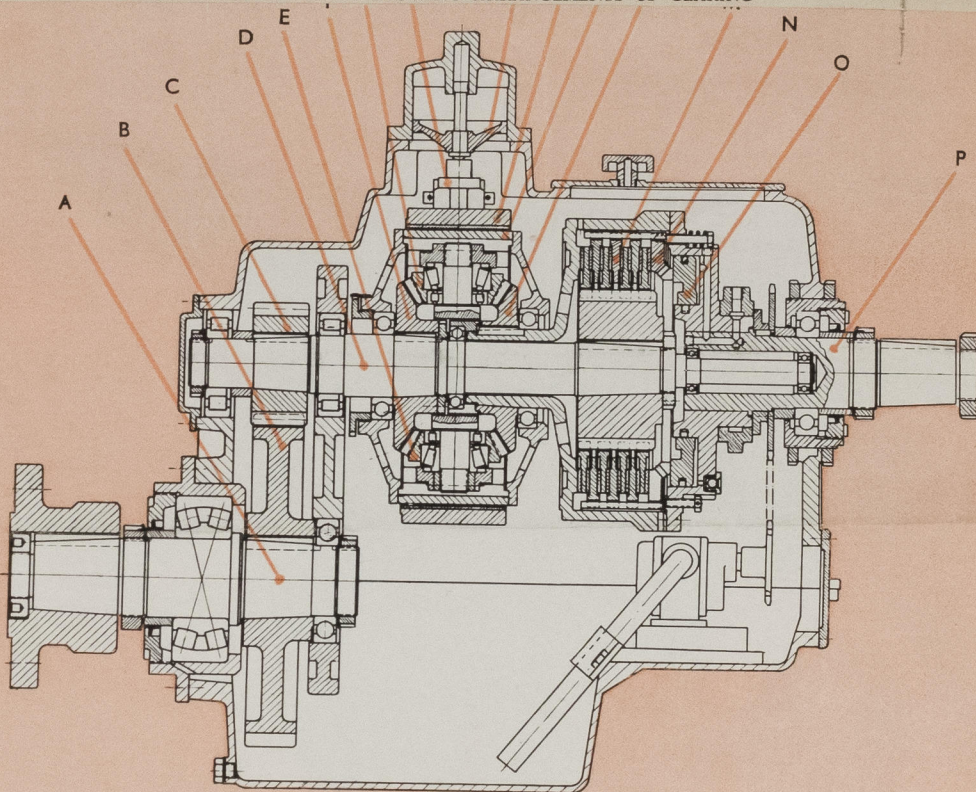
WHEELS

Revolutions per minute ...

Diameter of pitch circle, inches/mm. ...

No. of teeth ...

DIAGRAMMATIC SKETCH SHOWING ARRANGEMENTS OF GEARING



Working

1	13	90 ✓	97	74.6	107
C 45	C 45	C 45	EC 80	EC 80	HCR
C 45 = 60-72	EC 80 = 60-61				
Multiple disc clutch	C 35	50-60	GG 22 (cast iron)	minimum 22	

PRIMARY			MAIN
HP	MP	LP	



© 2021

Lloyd's Register Foundation

011544-011554-0081 2/2

Date of writing report 6th June, 1963 Received London Port HANNOVER No. 1411
Survey held at No. of visits in shop 6 First date 27.11.62 Last date 27.5.63

FIRST ENTRY REPORT ON M

Name of Ship
Hull built at Bremen-Hemelingen
Main engines made at Köln
Reduction gearing made at Hameln
Type of engine with which gearing is to be used SBF 12

The following particulars are to be given as fully and clearly as possible

Description of gearing, including reversing arrangements and clutches, if any, and No. of sets (state if ball or roller bearings)
Single reduction: Spur wheel geared multiple disk clutch operated by oil press. Reverse side: Planet bevel gear and band bracke operated by oil press. Oil pump: gear driven.

Ball and roller bearing
If single helical, what is the position of the gear thrust bearing?
Self - aligning roller bearing on out-put shaft
Helix angle, primary 18° secondary

Type of involute tooth form corrected press. angle Approved maximum total S.H.P. 320 at 1300 R.P.M. of main wheel

PINIONS Shaft and wheels case

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 cone bearings, inches/mm.
No. of bearings
Span of bearing centres, inches/mm.

Material, state nominal composition and heat treatment
Shafts forged
bevel and spur gear wheels case hardened
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.

Input		PRIMARY	Intermediate	SECONDARY		Output
HP	MP		LP	HP	MP	LP
320						
1300						372
136, 288						463, 712
18						63
90						87
97			74.6			107
C 45			C 45			C 45
EC 80						EC 80
C 45 = 60-72			EC 80 = 60-61			HCR
Multiple disc clutch						
C 35						
50-60						
GG 22 (cast iron)						
minimum 22						

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	

