

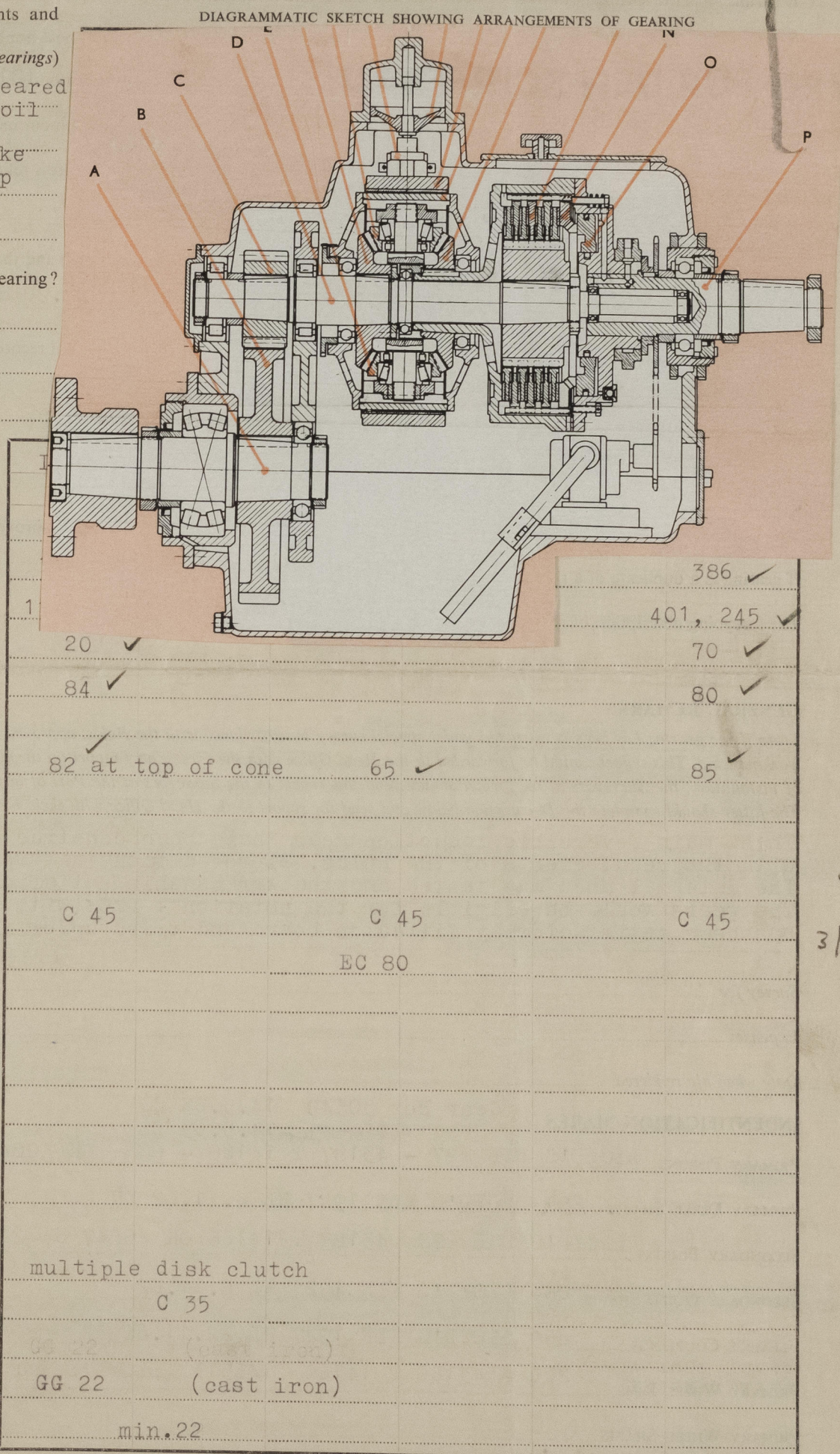
Date of writing report... 10th July, 1963 Received London... 23 SE. 1963 Port HANNOVER No. 144

Survey held at... Hameln No. of visits in shop 4 First date 14/12/62 Last date 14/5/63


Name of Ship.....	Owners.....
Hull built at <u>Elmshorn</u>	by <u>Kremer Sohn, H.,</u> Yard No. <u>11011</u> Year <u>1963</u>
Main engines made at <u>Köln-Deutz</u>	by <u>Klöckner-Humboldt-Deutz</u> Engine No. Year
Reduction gearing made at <u>Hameln</u>	by <u>Eisenwerke Reintjes,</u> Gear No. <u>30549</u> Year
Type of engine with which gearing is to be used <u>SBA 8M 517</u>	Type <u>WU 180/3.5</u> :1
State if for Class 1 or 2 ice strengthening	

Do couplings permit axial float of pinions?.....no..... Have primary pinions been dynamically balanced?.....no..... Have secondary pinions been dynamically or statically balanced?.....

No. of teeth... ..



3/10/63

PRIMARY			MAIN
HP	MP	LP	
_____	_____	_____	 © 20
_____	_____	_____	

Rpt. 4e

Date of writing report 10th July, 1963 Received London 23 SE 1963 Port HANNOVER No. 744
Survey held at Hameln No. of visits in shop 4 First date 14/12/62 Last date 14/5/63

FIRST ENTRY REPORT ON MAIN ENGINE REDUCTION GEARING

Name of Ship
Hull built at Elmshorn
Main engines made at Köln-Deutz
Reduction gearing made at Hameln
Type of engine with which gearing is to be used SBA

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 gear
multiple disk clutch operated by oil pressure, reverse side:
Planet bevel geared and band bracke operated by oil pressure, oil pump gear driven
Roller and ball bearings

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

Helix angle, primary secondary

Type of involute tooth form Approved maximum total S.H.P. 230 at 286 386 R.P.M. of main wheel

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

Shaft forged

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? no Have primary pinions been dynamically

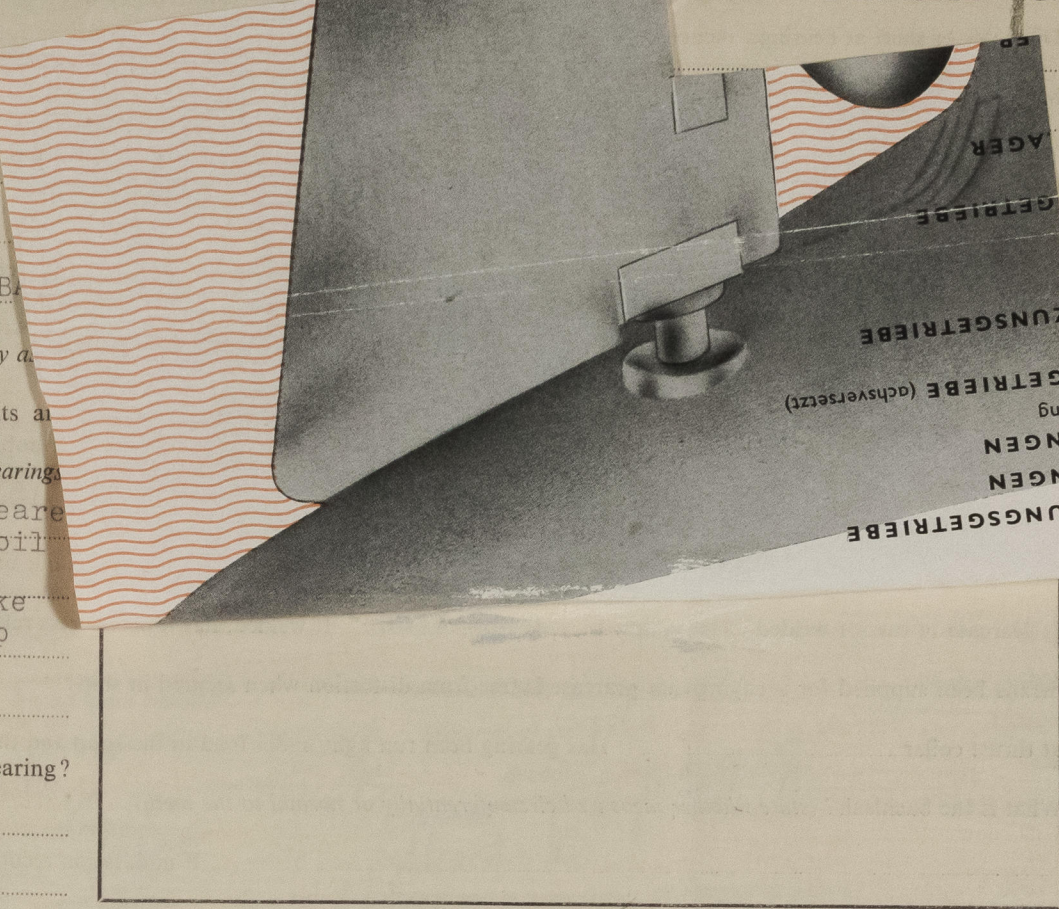
balanced? no Have secondary pinions been dynamically or statically balanced?

WHEELS

Revolutions per minute ...

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

No. of teeth...



Input	PRIMARY	Intermediate	SECONDARY	Output
HP	MP	LP	MP	LP
230				
1350 ✓				386 ✓
117, 755 ✓				401, 245 ✓
20 ✓				70 ✓
84 ✓				80 ✓
82 at top of cone		65 ✓		85 ✓
C 45		C 45		C 45
		EC 80		
multiple disk clutch				
	C 35			
GG 22	(cast iron)			
GG 22	(cast iron)			
min. 22				

PRIMARY			
HP	MP	LP	MAIN

Material of rims, state nominal composition
Tensile strength, tons per sq. in./kg. per sq. mm.
Diameter of shaft at bearings, inches/mm.
Material of shaft
Tensile strength, tons per sq. in./kg. per sq. mm.

[illegible]

EISENWERKE REINTJES GMBH
H. Reintjes
Manufacturer

State if the gearing has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters. State quality of materials and workmanship. This report should be forwarded to the Head Office with the First Entry report on the machinery. When gearing is made at a Port other than the Port of installation, the Surveyors at the former should send this report to the Surveyors at the Port of installation as soon as possible after completion of the gearing. The latter should complete the Declaration below and send the report to the Head Office with their First Entry report on the machinery.

This main reversible reduction gear has been constructed under special survey in accordance with the requirements of the Rules, approved plans and Secretary's letters. The material used was tested and the workmanship satisfactory. The gears would be eligible for the notation + LMC (with date) when the whole machinery has been satisfactorily fitted on board and tried under full working condition.

Survey fee

Expenses.....

Date when a/c rendered

Engineer Surveyor to Lloyd's Register of Shipping

IDENTIFICATION MARKS Gear Box 30549 14.5.63 CS
14.5.63 CS
PRIMARY PINIONS LLOYD'S DSF 227 - 43187 T 14168 - 668 OK 408447 SW 29.11.62 HS
PRIMARY ~~QUILL~~ SHAFTS 658 LLOYD'S KLN 1927 HL 6.11.62 KN
SECONDARY PINIONS LLOYD'S DSF 228 43187 T 14168 OK 40847 SW 29.11.62 HS
SECONDARY ~~QUILL~~ SHAFTS 656 LLOYD'S KLN 1927 HL 6.11.62
FLEXIBLE COUPLINGS 659 LLOYD'S KLN 1927 HL 22.11.62 FK
Bevel gear wheels 226 - 43156 T 14169 146513 LLOYD'S DSF 29.11.62 HS
~~PRIMARY WHEEL RIMS~~
PRIMARY WHEEL SHAFTS
MAIN WHEEL RIM 228 LLOYD'S DSF 43187 T 668 OK
40847 SW 19.11.62 HS MAIN WHEEL SHAFT 654 LLOYD'S KLN 1927 HL 6.11.62 FK

The above reduction gearing has been fitted on board the at
in a proper manner and found satisfactory when tested on the (date) under full-power working conditions for
hours and when examined subsequently.

DATE OF COMMITTEE _____

DECISION

Engineer Surveyor to Lloyd's Register of Shipping

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Register of Shipping
Lloyd's Register
Foundation