

REPORT ON **AUXILIARY INTERNAL COMBUSTION RECIPROCATING ENGINES**

FOR CONSIDERATION BY THE COMMITTEE OF LLOYD'S REGISTER OF SHIPPING

Ship's Name (or contract No.) **m.s. "BARTH".** Port **Groningen**

Gross tons **499.02** Date of completing rpt. **21-1-66** Rpt. No. **3078c.**

Place of survey, if different from above **Lemmer.**

No. of visits in shops **2** First date **30-11-65** Last date **6-12-65.**

Ship built by **Scheepswerf "Friesland" N.V.,** Yard No. **286/41**

Aux. engines made by **Lemmer.** Eng. No. **1-21401** When **1965**

VEB dieselmotorenwerk Leipzig, East Germany.

Fee **--** Expenses **--**

Description (including type name) **2 NVD18.** No. of sets **1**

No. of cylinders, each engine	2	No. of exhaust gas driven blowers/superchargers, each engine	none
Dia. of cylinders	125 mm,	Is welded construction used for	Bedplate? no.
Stroke	180 mm.		Entablature? no.
2 or 4 stroke cycle	4	Total internal volume of crankcase, if 20 cu.ft. or over	less 20 cu.ft
Approved service B.H.P., each engine	28	Crankcase explosion relief devices	No. -
Corresponding R.P.M.	1000		Total area -
Corresponding M.I.P.	5.5 kg/cm²	Are flame guards or traps fitted to relief devices?	no.
Maximum cyl. pressure	63 kg/cm²	Cooling medium for	Cylinders F.W.
Fuel	diesel		Pistons -
			Fuel valves -
If cylinders in vee or other special formation, state	Angle of vee No. of crankshafts, each engine	No. of attached pumps	F.W. COOLING one
	-		S.W. COOLING one
Is engine of opposed piston type?	no.		LUB. OIL one
No. and type of mechanically driven scavenge pumps/blowers, each engine	none	How is engine started?	Hand and battery

SHAFTING

Is a damper or detuner fitted?	no.	Dia. of journals	85 mm.
Type	-	Webs	Breadth at mid-throw 125 mm.
			Axial thickness 36 mm.
			If shrunk, radial thickness around eyeholes -
No. of main bearings	3	Nominal shrinkage allowance if dowel pins are not fitted	-
Are bearings of ball or roller type?	no.	Flywheel	Diameter 560 mm.
Distance between inner edges of bearings in way of cranks	-		Weight 146 kg.
Is crankshaft built, semi-built or solid?	solid	Are balance weights fitted?	no.
Material of crankshaft	SM steel	Total weight of balance weights	-
Minimum approved tensile strength	-	Radius of gyration	-
Dia. of crankpins	78 mm.	Dia. of flywheel shaft	-

Has each engine been tested in the shop? **according cert. yes**

Was it tested with driven machinery attached? **yes**

How long at full power? **5 hours.**

Was the governing tested and found satisfactory? **yes**

DATE OF APPROVAL OF TORSIONAL VIBRATION CHARACTERISTICS
(If 150 B.H.P. or over) -

PARTICULARS OF DRIVEN MACHINERY

electric generator 20 KVA-390 V-29.6 Amps., cos ϕ 0.8 for Harbour purposes.
Fire pump.

PORT & No. OF CERTIFICATES FOR STARTING AIR RECEIVERS -

ELECTRIC GENERATORS (Copies of certificates to be forwarded)

If 100 kW or over	Port	-	If less than 100 kW, have makers' certificates been supplied?	yes
	No. of cert.	-		

DECLARATION TO BE SIGNED BY ENGINE BUILDERS

To the best of our knowledge this machinery has been soundly constructed in conformity with the Rules, Regulations and requirements of Lloyd's Register of Shipping, and the foregoing particulars of auxiliary sets are correct.

(date)

(signature)

DATES OF APPROVAL OF PLANS -

IDENTIFICATION MARKS ON SHAFTING -

A previous similar case was for (name or contract No.) -

Engine No.

Rpt. No.

The machinery reported above has been constructed ~~in accordance with the Rules, Regulations and Secretary's letters.~~ in accordance with the Rules, Regulations and Secretary's letters. The materials and workmanship are good, the spare gear required by the Rules has been supplied and the machinery is eligible, in my opinion, to be fitted in a classed ship.

M. Th. Putting
M. Th. Putting.

Surveyor to Lloyd's Register of Shipping

DECLARATION TO BE COMPLETED AND SIGNED BY THE SURVEYOR AT THE PORT OF INSTALLATION

The above machinery has been fitted in **m.s. "BARTH"**

at **Lemmer.**

in a proper manner and found satisfactory

when tested on (date) **29-11-65**

under full working conditions.

M. Th. Putting
M. Th. Putting.

Surveyor to Lloyd's Register of Shipping

Date of Committee

FRIDAY 11 FEB 1966

Minute

Su Rpt. 1-



Lloyd's Register Foundation

Note:—Where existing machinery is submitted for classification, the circumstances are to be explained as fully as possible, and the recommendation should be suitably amended.