

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 crank- shafts, 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	-
			Nominal shrinkage allowance if dowel pins are not fitted	-
No. of main bearings	3	Flywheel {	Diameter	560 mm.
Are bearings of ball or roller type?	no.		Weight	146 kg.
Distance between inner edges of bearings in way of cranks	-	Are balance weights fitted?	no.	
Is crankshaft built, semi-built or solid?	solid	Total weight of balance weights	-	
Material of crankshaft	SM steel	Radius of gyration	-	
Minimum approved tensile strength	-	Dia. of flywheel shaft	-	
Dia. of crankpins	78 mm.			

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. 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.

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.

Surveyor to Lloyd's Register of Shipping

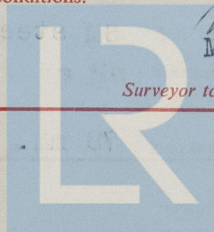
Date of Committee

FRIDAY 11 FEB 1966

Minute

Su Rpt. 1-

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.



Lloyd's Register
Foundation