

27 MAY 1965

652

REPORT ON AUXILIARY INTERNAL COMBUSTION RECIPROCATING ENGINES

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

Ship's Name
Contract No.) C.11502

Port TRIESTE

Gross tons - Date of completing rpt.

Rpt. No. 16475

Place of survey, if different from above -

No. of visits in shops 11

First date 1.2.1965

Last date 31.3.1965

Ship built by -

Yard No. -

Aux. engines made by C.R.D.A.-Fabbrica Macchine S.Andrea

Eng. No. 5813 When 4,64

11.6.65

Fee Lire 210.000.-

Reconditioned Expenses Lire 3.500.-

RT4% " 8.540.-

Description (including type name) C.R.D.A.-SULZER type 6 BCAH 29

No. of sets one

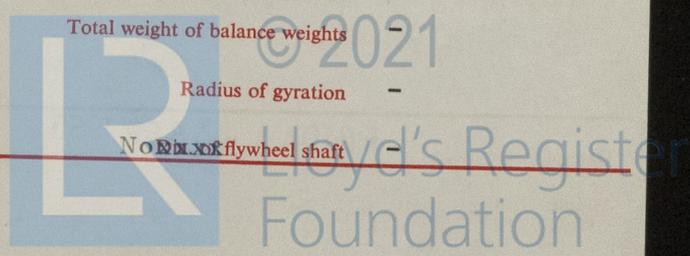
The particulars in this report are to be given as fully and as clearly as possible. Where the answer is "NO" or "NONE" say so. Ticks and other signs of doubtful meaning are not to be used. Wording not applicable to be cancelled.

No. of cylinders, each engine	6 ✓	No. of exhaust gas driven blowers/superchargers, each engine	one	
Dia. of cylinders	290mm. ✓	Is welded construction used for	Bedplate? no ✓	
Stroke	360mm. ✓		Entablature? no	
2 or 4 stroke cycle	4 ✓	Total internal volume of crankcase, if 20 cu.ft. or over	1750 dm3 ✓	
Approved service B.H.P., each engine	825 ✓	Crankcase explosion relief devices	No. 3 ✓	
Corresponding R.P.M.	500 ✓		Total area	240 cm ² ✓
Corresponding M.I.P.	12.2 kg/cm ² ✓	Are flame guards or traps fitted to relief devices?	yes ✓	
Maximum cyl. pressure	70 " " ✓	Cooling medium for	Cylinders fresh water ✓	
Fuel	Diesel oil		Pistons	Lub.oil ✓
If cylinders in vee or other special formation, state	Angle of vee No. of crankshafts, each engine		Fuel valves	Lub.oil ✓
	No special formation	No. of attached pumps	F.W. COOLING	
Is engine of opposed piston type?	no		S.W. COOLING none ✓	LUB. OIL one ✓
No. and type of mechanically driven scavenge pumps/blowers, each engine	none	How is engine started?	compressed air	

SHAFTING

Is a damper or detuner fitted?	no ✓	Webs	Dia. of journals	200 mm. ✓
Type	-		Breadth at mid-throw	295 mm. ✓
No. of main bearings	7 ✓		Axial thickness	92 mm. ✓
Are bearings of ball or roller type?	no		If shrunk, radial thickness around eyeholes	Solid
Distance between inner edges of bearings in way of cranks	320mm ✓		Nominal shrinkage allowance if dowel pins are not fitted	-
Is crankshaft built, semi-built or solid?	Solid	Flywheel	Diameter	1500 mm ✓
Material of crankshaft	Forged steel		Weight	1400 kg. ✓
Minimum approved tensile strength	56 kg/mm ²	Are balance weights fitted?	no	
Dia. of crankpins	185 mm. ✓	Total weight of balance weights	-	
		Radius of gyration	-	
		No. of flywheel shaft	-	

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY



Has each engine been tested in the shop? **yes**

Was it tested with driven machinery attached? **no**

How long at full power? **4 hours**

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

DATE OF APPROVAL OF TORSIONAL VIBRATION CHARACTERISTICS

(If 150 B.H.P. or over) **30.10.1962**

PARTICULARS OF DRIVEN MACHINERY

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?

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.

CANTIERI RIUNITI DELL' ADRIATICO
Fabbrica Macchine S. Andrea

(date)

DATES OF APPROVAL OF PLANS **16.10.1962 and 14.7.1964**

IDENTIFICATION MARKS ON SHAFTING

LLOYD'S GEN. 1521 PR 2.3.65

A previous similar case was for **ANSALDO Yard N° 1598**
(name or contract No.)

Engine No.s **5819-5820-5821**

Our Rpt. No. **16307**

The machinery reported above has been constructed under Special Survey in accordance with the Rules, approved plans 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.~~ as reported in our Report N° 16251 for Messrs. Ansaldo Yard N° 1596. The engine has been later damaged and has now been reconditioned by renewing the crankshaft, the bed plate, the cylinder jacket and N° 6 cylinder liner, piston and connecting rod with bottom end bearing. All other parts have been overhauled and refitted. Materials and workmanship are good. The engine is eligible in my opinion to be fitted in a classed ship.

Surveyor to Lloyd's Register of Shipping
(S. Verdarelli)

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

The above machinery has been fitted in **m.t. "RAPHAEL" - Yard No. 1598**

at **ANSALDO S.P.A., SESTRI**

in a proper manner and found satisfactory

when tested on (date) **10th May, 1965**

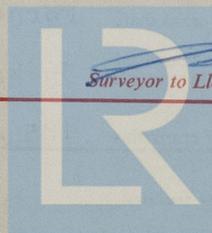
under full working conditions.

Date of Committee

FRIDAY - 3 SEP 1965

Minute

See Rpt. 1.



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S. Dinnen
Surveyor to Lloyd's Register of Shipping

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.