

MONDAY 2 JAN 1959

12 JUL 1958

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writing report 21st June 1958 Received London Port of Milan No. 14
held at LEGNANO No. of visits 44 First date 2.8.56 Last date 12.6.58

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM
RECIPROCATING ENGINES

"ESSO SOUTHAMPTON"

No. of Ship CANTIERI RIUNITI DELL'ADRIATICO Yard 1839 Owners Esso Petroleum Co., London
Contract No. if name unknown (Or Consignees)
Built at MONFALCONE - Trieste - by C. R. D. A. when = Yard No. 1839
liary turbines or engines made at LEGNANO by Messrs. S.p.A. FRANCO TOSI when 1958 Eng. Nos. 3980-3981
No. of sets and description TWO: TURBO GENERATOR SETS; each consisting of a steam turbine driving a
KW alternating current generator - through a single reduction gearing:- 9000/1200 R.p.M.-

ure. AM TURBINES. No. of turbines per set ONE BHP per set 750 KW Steam pressure 58.7 Kg/cm² Steam temperature 454°C.
e of turbines R.C.7390 TOSI-WESTINGHOUSE - Impulse type - 9 rows of bladings - horizontal shaft.=
Particulars of gearing Double helio - single reduction gearing.=
Material of turbine shaft(s) 9000/1 PCD of pinion(s) 4.73" PCD of wheel(s) 38.9" Material of
on(s) Cr.Ni.Mo.Steel Material of wheel rim(s) S.M.Steel Has rotor been dynamically balanced? Yes Diameter of rotor
and purpose 90 mm. Does the set include a steam condenser? - Is an emergency governor fitted? Yes No. and purpose of
how long at One- Lub-oil pump.= Has the set been tested in the shop? Yes If so, for how long at full
ed? Four hours Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? Yes
Identification marks See Rpt.9a attached.= Particulars of driven machinery for each set:
E: ALTERNATING CURRENT GENERATOR rated:750 KW - 450 V - 1220 A - at 1200 R.p.M.=
Manufacturers: CANTIERI RIUNITI DELL'ADRIATICO - Monfalcone - Serial N°8003495 - 8003496
Type: GSN/1250/6.=

Material of cylinders = Stroke = Dia. of crankshaft journals = Pins = Material of
a of crankshaft = Is crankcase enclosed? = If so, is the internal volume 20 cu. ft. or over? = No. and total area of crankcase
losion relief devices fitted? = Are the bearings forced lubricated? = No. and purpose of attached pumps =
Is a Governor Fitted? = Identification Marks =
Particulars of Driven Machinery =

22.7.58

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over TRIESTE OFFICE Trieste Cert.N°s. 4023 & 4024
generators under 100 Kw., has Makers' Certificate been obtained? = Are Certificates attached? (NO) Yes

The foregoing description is correct.

Manufacture
this machinery duplicate of a previous case? YES If so, which? N°13 dated 17th May 1958 - C.R.D.A. Yard 1834.=
ary's letter
as possible GENERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters.
ate quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.
ese sets have been constructed under Special Survey of tested materials and in accordance
th the approved plans, Secretary's letters and Rules Requirements.= All parts subjected to
ternal pressure have been examined under hydraulic test to Rule Requirements, and found
ound and satisfactory.= The turbine rotor, blading and reduction gearing have been examined
completion and found, so far as could be seen, sound and free from defects.= Rotors, pinion
d gear wheel were statically and dynamically balanced with satisfactory results.= The mate-
al and the workmanship are good.= These sets have been examined under steam in shop running
full power.= The governor and the emergency governor were tried in operation with satisfac-
ory results.= These sets have been dispatched to Trieste, to be fitted aboard the Yard 1839
Messrs: "CANTIERI RIUNITI DELL'ADRIATICO".=
urvey Fee.....Lit. 192,000=
s Register expenses " 48,190=
Rev. Tax. " 7,206=
Date when a/c rendered 30/6/1958.

D. Cecchi

Engineer Surveyor to Lloyd's Register

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the "ESSO SOUTHAMPTON"
Trieste in a proper manner and found satisfactory when tested on the (date) 1st & 27th Nov., 1958 under full working
onditions.

Engineer Surveyor to Lloyd's Register
Foundation

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rt of M I L A N Continuation of Report No. 14 dated 21st June 1958 on the

TWO: 7 5 0 KW - T U R B O - A L T E R N A T O R S S E T S
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Manufacturers: FRANCO TOSI S.p.A. of LEGNANO (Italy) Order N° 50518.=
intended for the Yard N°1839 - being built by Messrs: CANTIERI RIUNITI DELL'ADRIATICO
of Monfalcone -(Trieste) Order N°10925/94200/4 dd. 3.5.56.=

DESCRIPTION & FINAL STAMPING ON MATERIALS

FIRST SET: TURBINE N°3980 (ALTERNATOR N°8003495)

FORGINGS	Sample N°	Drawing N°	Final Stamping
TURBINE ROTOR	✓ 625	558768 mod.207	LLOYD'S N°625 MI 12.6.58 DC
SLOW GEAR WHEEL RIM	✓ 312	560260 mod.203	LLOYD'S N°312 MI 12.6.58 DC
SLOW GEAR WHEEL SHAFT	✓ 169	560262 mod.202	LLOYD'S N°169 MI 12.6.58 DC
PINION	✓ 387	584104	LLOYD'S N°387 MI 12.6.58 DC

CASTINGS:

UPPER HALF DISCH.CASING	✓ 203	555353 mod.32	LLOYD'S TEST T.P.2 KG.MI.22.10.57 DC
LOWER " " "	✓ 167	555353 mod.31	LLOYD'S TEST TP.2KG.MI 22.10.57 DC
UPPER HALF CASING	✓ 218	555352 mod.2	LLOYD'S TEST TP.18/4KG.MI 14.10.57DC
LOWER HALF CASING	221	555352 mod.5	LLOYD'S TEST TP.18/4KG.MI 14.10.57DC
STEAM NOZZLES CHEST	✓ 200	576372 mod.1	LLOYD'S TEST TP.100 KG.MI 7.10.57DC

MARKS on: LUB-OIL COOLER SHELL: LLOYD'S TEST TP.5 KG.MI 25.3.57 DC - TP 4 KG.MI 1.4.57 DC

SAFETY VALVE: LLOYD'S TEST TP 3 KG. MI 4.4.57 DC

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SECOND SET: TURBINE N°3981 (ALTERNATOR N° 8003496)

FORGINGS:

TURBINE ROTOR	✓ 675	558768 mod.207	LLOYD'S N°675 MI 9.6.58 DC
SLOW GEAR WHEEL RIM	✓ 313	560260 mod.203	LLOYD'S N°313 MI 9.6.58 DC
SLOW GEAR WHEEL SHAFT	✓ 263	560262 mod.202	LLOYD'S N°263 MI 9.6.58 DC
PINION	✓ 383	584104	LLOYD'S N°383 MI 9.6.58 DC

CASTINGS:

UPPER HALF DISCH.CASING	✓ 190	555353 mod.32	LLOYD'S TEST TP.2 KG.MI 28.11.57 DC
LOWER " " "	✓ 169	555353 mod.31	LLOYD'S TEST TP.2 KG.MI 28.11.57 DC
UPPER HALF CASING	✓ 216	555352 mod.2	LLOYD'S TEST TP.18/4 KG. MI 14.10.57 DC
LOWER HALF CASING	✓ 222	555352 mod.5	LLOYD'S TEST TP.18/4 KG. MI 14.10.57 DC
STEAM NOZZLES CHEST:	✓ 198	576372 mod.1	LLOYD'S TEST TP.100 KG. MI 22.10.57 DC

MARKS on: LUB-OIL COOLER SHELL: LLOYD'S TEST TP.5 KG.MI 6.5.57 DC - TP.4 KG.MI 12.5.57DC

SAFETY VALVE: LLOYD'S TEST TP.3 KG.MI 4.4.57 DC

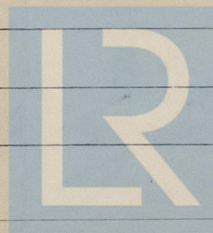
FINAL STAMPING ON SETS

LLOYD'S N° 3980	LLOYD'S N° 3981
750 KW	750 KW
EXAMINED MI 12.6.58 DC	EXAMINED MI 9.6.58 DC

D. Cecchi

Surveyor to Lloyd's Register of Shipping

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Foundation