

M/V "AURIS"

ADDITIONAL SPARE GEAR FOR MAIN & AUX. ENGINES.

- 1 Set of coupling bolts for main shafting.
- 1/2 Coupling bolts with nuts for intermediate shaft
- 2 Sets of crosshead brasses (complete).
- 2 Crosshead bolts with nuts and set pins.
- 2 Sets crankpin brasses (complete)
- 2 Crankpin bearing bolts with nuts and set pins.
- 1 Complete set main bearing brasses for one journal.
- 2 Bolts for main bearings with nuts and set pins.
- 6 Exhaust valves complete with housing and spring.
- 6 Exhaust valves with stems.
- 4 Springs for exhaust valves.
- 6 Seats for exhaust valves.
- 1 Inlet valves complete with housing and springs.
- 1 Inlet valves with stems.
- 4 Springs for inlet valves.
- Relief valves complete with housing and springs.
- Starting air valves complete with housing and springs.
- Starting air valves.
- Springs for starting air valves.
- Spare spring for each size relief valve on the engine.
- 4 Fuel pump plungers complete with ground bushes.
- 1 Fuel pump complete with plungers and all fittings & pipes.
- 1 Cylinder heads without valves, with studs.
- 2 Cylinder liners with extension pieces (Liners connected to heads).
- 1 Pistons.
- 1 Piston rod with crosshead and guide shoe.
- 12 Piston bolts, one set guide shoe bolts.
- 1 Connecting rod.
- 50 Piston rings.
- Scraper rings.
- 3 Pyrometers for exhaust gases (Negretti & Zambra).
- 4 Fuel valve chests complete with atomizers, springs, etc.
- 8 Flame plates.
- 2 Fuel cam toe pieces.
- 1 complete set valve levers and rollers for one cylinder.
- 6 valves with springs for supercharge system.
- 1 Propeller shaft (complete with nut).
- 1 C.I. Propeller.
- 2 Complete sets of thrust block pads.
- 2 Valves for starting air bottles.
- 6 Bolts for bedplate.
- 6 Fuel injection pipes complete with connections.
- 2 Complete sets of rubber rings for one motor.
- 2 Complete sets of copper rings for one motor.
- Complete set of spare studs, nuts & bolts for 2 main cylinders.
- 1 Set of spare driving gear wheels and chain for cooling water and lubricating oil pumps.
- 1 Set of bearing brasses for driving gear of above pumps.
- 1 Spare flexible coupling for each pump.
- 1 Cylinder lubricator complete.
- 6 Spare lubricator elements with valves.
- Set gear wheels for camshaft drive.
- 1 Spare chain for camshaft drive.
- 1 Telescopic pipe outer casing with stuffing boxes.
- 4 Telescopic pipes with flanges.
- Cast iron packing rings and scraper packing for 3 piston rods.
- 2 Bearing brasses for gear wheels of camshaft drive.
- 3 Safety plates for starting air pipe.
- Spare parts for driving gear of 2 H.P. fuel pumps.

BOILER:

- 24 Boiler tubes.
- 2 Stay tubes.
- 6 Boiler tube stoppers.
- 1 Testing apparatus safety valves.



BOILER (Contd) :-

- 1 Doz. gauge glasses with 2 doz. Wallico rings.
- 4 Check valves and spindles.

CONDENSER:

- 30 Condenser tubes.
- 24 Condenser tube ferrules.

AUXILIARY AIR COMPRESSORS:

- 6 piston rings for each cylinder.
- 2 Suction valve housing for each stage.
- 2 Delivery " " " "
- 5 Suction valves for each stage.
- 5 Delivery " " " "
- 20 Cooler tubes.

STEAM ENGINE FOR AUXILIARY COMPRESSOR:

- 1 Piston with piston rings and piston rod.
- 1 Set bottom end brasses with bolts.
- 1 Slide valve rod and eccentric strap.

DUPLEX STEAM PUMPS:

- 1 Pump rod complete with crosshead, pistons & rings for each pump.
- 1 Valve spindle for each pump.
- 1 Set suction & delivery valves, seats & springs for each size of duplex pump in the engine-room.

WEIR'S PUMPS:-

- 1 Pump rod with pistons, crosshead and rings complete.
- 1 Set suction valves.
- 1 Set delivery valves.
- 12 Ebonite rings.

EVAPORATOR:

- 1 Complete set evaporator coils.
- 12 Gauge glasses with 24 Wallico rings.

LUBRICATING OIL & PISTON OIL COOLERS:

- 1 Cooler stack for each cooler.

FILTERS:

- 1 Spare filter element for each filter.

TURNING ENGINE:

- 1 Spare armature complete in watertight box.
- 1 Complete set of brush-holders & brushes.

"TURBULO" FILTER:

- 2 Packings for filter cloth.
- 2 Filter bags.

STEERING GEAR:

Engine:

- 1 50-ft. length telemotor piping (copper).
- 2 Couplings.
- 2 Sets ram gland packing.
- 1 Spring.

Telemotor:

- 1 Drum 5 gallons) telemotor oil.
- 2 bye-pass valve springs, 1 bye-pass bolt spring.
- 2 bye-pass valves. 12 Packing rings. 16 Headers (rams).
- 2 round gauge glasses & pieceheader (replenishing tanks).



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Built at Monfalcone By whom built Lantern Pump & Mill'aries Yard No. 112  
Engines made at Amsterdam By whom made N. V. Werkspoor Engine No. 632  
Donkey Boilers made at Glasgow By whom made R. W. Hawthorn Leslie & Co Boiler No. 9703  
Port belonging to Is Ele

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Telemotor: (Contd)

- 2 flat gauge glasses (charging tank).
- 2 copper joints (bye-pass plugs).
- 3 Copper spigots (bye-pass flange).
- 2 Fibre joints (tank doors).
- 2 copper joints and 2 ruffs (pressure gauge pipes).
- 2 packing rings & 4 headers (pressure gauge valves).
- 2 " " " 4 " (bye-pass tappet rods).
- 1 " " " 2 " (bye-pass cock.)
- 1 Centring spring. 1 back pressure valve spring.
- 8 packing rings & 8 headers (charging valves).
- 2 copper joints (charging valves).
- 2 "C" type pipe couplings. 1 "U" wash-out piece.
- 9 pipe connection joints. 1 pipe expanding tool. 2 pamphlets.
- 1 each 1-1/4", 1", 7/8", 3/4", 5/8", 1/2", 3/8" & 5/16" standard spanners.
- 1 Charging valve and air cock key. 1 ram gland key.
- 1 Pressure gauge valve spindle key. 1 box key.

DYNAMOS:

- 1 spare armature in watertight box for 16 KW Dynamos.

DYNAMO STEAM ENGINE:

- 1 Piston.
- 1 Piston with rings.
- 1 Complete set top & bottom end brasses with bolts & nuts.
- 1 Slide valve rod with slide valve and eccentric rod.

REFRIGERATING MACHINERY:

For the Steam Engine:

- 1 Piston ring.
- 1 Set connecting rod top end brasses.
- 1 " " " bottom end brasses.
- 1 Set of governor springs.

For the Compressor:

- 1 Spare crankshaft.
- 1 Set of suction & delivery valves.
- 1 Set of bottom end brasses.
- 2 Ammonia stop valves (3/8" and 1.1/4").
- 1 Ammonia expansion valve (3/8").

SPARE FOR GA



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