

Glasgow Rm No 67329

ARMSTRONG WHITWORTH & Co. LTD.
SPARE GEAR FOR SHIP NO. 4.

MECHANICAL SPARE GEAR.

- 16 - WNS Suction valve units complete.
- 16 - WND Discharge " "
- 64 - WN4 valve rings.
- 64 - WN6 " springs.
- 4 - P22 safety head springs.
- 1 - "7 1/2" piston (without rings or gudgeon pins).
- 16 - W7 1/2 triple seal piston rings.
- 16 - W7 1/2 scraper rings.
- 4 - WED2 gudgeon pins.
- 1 - WD1A connecting rod complete with gudgeon pin bush and crankpin bush with bolts.
- 3 - WD4 gudgeon pin bushes.
- 3 - WD3A crankpin bushes with bolts.
- 1 - WB52B gland end main bearing.
- 1 - WB45B intermediate type main bearing complete with bolts.
- 1 - WB23 gland bush and neck ring.
- 2 - Sets of gland packing.
- 1 - WF2B cylinder bonnet.
- 1 - WH06A discharge valve cage.
- 2 - 4.5/8" dia. crankcase sight glasses.
- 2 - 2.5/8" dia. oil return " "
- 2 - 4.5/8" " sight glass joints.
- 2 - 2.5/8" " " "
- 2 - Relief valve springs.
- 1 - 6" dia. ammonia pressure gauge.
- 1 - W5A1/A oil pump plunger.
- 1 - W5A1/B oil pump barrel.
- 14 - Vee ropes, 1 1/2" x 210".
- 1 - TM1 - 1/8" gauge valve.
- 1 - 3/4" Str. thro' expansion valve.
- 1 - SM2B 1/4" stop valve.

Packing for Ammonia valves comprising:-

- | | | | | |
|-----|--------------------------------|---|--------|---------------|
| 4 - | Rings of packing for 4" valve. | | | |
| 4 - | " | " | 3" | " |
| 4 - | " | " | 2" | " |
| 4 - | " | " | 1 1/2" | " |
| 4 - | " | " | 1" | " (new type). |
| 4 - | " | " | 3/4" | " |
| 4 - | " | " | 1/2" | " |
| 4 - | " | " | 1/4" | " |

Flanges:-

- 2 - 4" x 8 1/2" M screwed flanges.
- 2 - 4" x 8 1/2" F " "
- 2 - 3" x 8 1/2" M " "
- 2 - 3" x 8 1/2" F " "
- 2 - 2" x 6 1/2" M " "
- 2 - 1 1/2" x 5" M " "
- 2 - S2M flanges.
- 2 - S2F " "
- 2 - S1 1/2 M " "
- 2 - S1 1/2 F " "
- 2 - S1M " "
- 2 - S3/4M " "
- 2 - S3/4F " "
- 2 - S1 1/2 M " "
- 2 - S1 1/2 F " "



© 2020

Lloyd's Register
Foundation

004520-004526-0108 13

MECHANICAL SPARE GEAR (CONT'D).Joint Rings:-

| | | | | | |
|-----|---|--------------------------|---|---|---|
| 6 - | 5.29/32" o.d. x 5.1/32" i.d. x 1/16" thk. | Golden Walkerite joints. | " | " | " |
| 4 - | 3.3/4" o.d. x 2.3/4" i.d. x 1/16" thk. | " | " | " | " |
| 6 - | 2.3/4" o.d. x 2" i.d. x 1/16" thk. | " | " | " | " |
| 6 - | 1.11/16" o.d. x 1.3/8" i.d. x 1/16" thk. | " | " | " | " |
| 4 - | 1.3/8" o.d. x 1.3/32" i.d. x 1/16" thk. | " | " | " | " |
| 4 - | 3.1/8" o.d. x 2.5/8" i.d. x 1/16" thk. | " | " | " | " |
| 4 - | 2.1/4" o.d. x 1.7/8" i.d. x 1/16" thk. | " | " | " | " |
| 8 - | 1.3/8" o.d. x 1" i.d. x 1/16" thick | " | " | " | " |

Bolts:-

| | | | | | |
|------|------------------------------------|--------------|---|---|---|
| 12 - | 3/4" x 3.1/4" long bolts with nuts | (4" flange). | " | " | " |
| 12 - | 3/4" x 3.1/4" | " | " | " | " |
| 8 - | 5/8" x 3" | " | " | " | " |
| 8 - | 5/8" x 2.3/4" | " | " | " | " |
| 8 - | 1/2" x 2.3/4" | " | " | " | " |
| 8 - | 1/2" x 2.3/4" | " | " | " | " |
| 8 - | 1/2" x 2" | " | " | " | " |
| 24 - | 1/2" x 2.1/2" | " | " | " | " |
| 24 - | 1/2" x 1.3/4" | " | " | " | " |

One Complete set of joints for 4W71 Compressor:-

| | | |
|------|-----------------------------------|-------------------|
| 4 - | WB12A cylinder. | Fibre. |
| 1 - | WB21A gland end. | " |
| 1 - | WB31A pump end. | " |
| 4 - | WF21A cylinder bonnet. | Golden Walkerite. |
| 8 - | WB21A side door. | " |
| 8 - | 5.23/32" x 4.17/32" (Dowel Pins). | Lead. |
| 11 - | 5/8" x 7/8" | " |
| 4 - | 19/32" x 1/4" | " |
| 1 - | WJ52 gauge oil lantern. | Fibre. |
| 3 - | 1.11/16" x 2.3/32" (strainer) | Lead. |
| 1 - | 3/4" x 1.3/4" (thermometer) | " |
| 1 - | 1/4" sq. ring. | Garlock. |
| 1 - | 3/4" x 1.3/4" | Fibre. |

Studs & Nuts:-

| | | |
|------|------------------------|---|
| 16 - | 5/8" x 2.11/16" studs. | " |
| 16 - | 5/8" x 2.5/8" | " |
| 6 - | 3/4" x 3.1/4" | " |
| 4 - | 5/8" x 2.1/2" | " |
| 4 - | 1/2" x 2" | " |
| 2 - | 1/2" x 2" | " |
| 8 - | 3/8" x 2" | " |
| 6 - | 3/4" whit bright nuts. | " |
| 36 - | 5/8" " " " | " |
| 6 - | 1/2" " " " | " |
| 8 - | 3/8" " " " | " |

- 4 - "Puretha" ammonia respirators in separate fitted box, each respirator to have one spare canister.
 1 - Set of stocks and dies 1/4" - 1" B.S.P.T.
 1 - " of " " 1.1/4" - 2"
 1 - Expander for 1.1/4" bore tubes.

Sundry lengths of piping of following bores:-
 1/2" - 3/4" - 1" - 1.1/4" - 2" - 2.1/2".

© 2020

Lloyd's Register
Foundation

0108 2/3

STEAM ENGINE SPARES.

- 1 - Box containing:-
- 2 - Sets HP piston rings.
- 2 - Sets LP
- 2 - Sets governor springs.
- 2 - Sets piston ring springs.
- 1 - Set selection of other springs.
- 2 - Oil pump strainers.
- 3 - Gauzes for strainers.
- 2 - Sets of metallic packing wearing parts for HP rod.
- 2 - " " " " " " " " LP
- 2 - " " " " " " " " valve rod.
- 2 - Sets of centre points.
- 1 - Pair of crankpin bearings.
- 1 - " " crosshead
- 1 - Set of main bearings.

SPARES FOR WATER PUMP.

- 1 - Impeller.
- 1 - Spindle.
- 1 - Set of bearings.

SPARES FOR PUMP MOTOR.

- 1 - Armature.
- 1 - Set of bearings.
- 1 - Set of field and interpole coils.
- 1 - Line of brush holders.
- 1 - Set of brushes.

WATER PUMP CONTROL GEAR SPARES.

- 1 - Set of control gear spares.

FAN MOTOR SPARES.

- 1 - Motor complete.
- 2 - Sets of brushes.
- 2 - Sets of control gear spares.



© 2020

Lloyd's Register
Foundation

0108 3/3