

Palmer 1000 Peter Hurrell

PETER BROTHERHOOD, LTD.
PETERBOROUGH.

TEST OF ELECTRIC GENERATING SET.

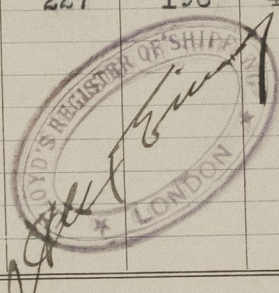
BY AN INTER
ON ENGINE.

Flash Point

Date **26. 9. 30.** Order No. **42625** Works No. **A**
Destination **palmer's Shipbuilding & Iron Co.Ltd.**
Type of Engine **Vertical Single Cylinder Enclosed D/A Type.**
Diameter of Cylinders **9½"** Stroke **6¾"**
Specified Output:— **45** K.W. **Overload 196** Amps. **230** Volts.
Steam **120 lbs/sq.in.** Revs. **400** Exhaust Pressure **1/2**
Steam Consumption in lbs. per K.W. Hr. **400** Full Load **1/2**
Tested in the presence of **Alex Ewing Esq. (Lloyds Surveyor)**

HOW PROTE

| Time. | Steam Pressure. | Total Temperature | Throttled Steam Pressure. | Receiver Pressure | Speed R.P.M. | Volts. | Amps. | K.W. | Load E.H.P. | Exhaust Pressure. lbs/sq.in. | Oil pressure lbs/sq.in. | |
|-------|-----------------|-------------------|---------------------------|-------------------|--------------|--------|-------|------|-------------|------------------------------|-------------------------|-----|
| 1.30 | COMMENCE TRIAL | | | | | | | | | | | |
| 1.40 | | | 125 | | 398 | 230 | 196 | 45.1 | 60.4 | 5 | 15 | |
| 1.50 | | | 130 | | 400 | 230 | 198 | 45.5 | 61.0 | 5 | 15 | do |
| 2.0 | | | 125 | | 400 | 230 | 197 | 45.3 | 60.7 | 4.5 | 15 | do |
| 2.10 | | | 125 | | 400 | 228 | 198 | 45.3 | 60.7 | 4 | 15 | do |
| 2.20 | | | 120 | | 400 | 227 | 198 | 45.0 | 60.3 | 4 | 15 | do |
| 2.30 | CLOSE DOWN | | | | | | | | | | | do. |



| GOVERNOR TRIAL. | | | | | | TEMPERATURES F. | | |
|------------------|-------|-------|-----------------|-------|--------|----------------------|--|-----|
| | Revs. | Volts | | Revs. | Volts. | After 1 hours run | | |
| Full load steady | 400 | 234 | ½ load fly up | 411 | 250 | Shunt Coils | | 88 |
| No. „ fly up | 430 | 285 | „ „ steady | 402 | 236 | Series Coils | | 79 |
| „ „ steady | 410 | 240 | Full „ max. dip | 389 | 220 | Inter-Poles | | 84 |
| Full „ max. dip | 385 | 192 | „ „ steady | 401 | 232 | Armature | | 114 |
| „ „ steady | 400 | 234 | ¼ „ fly up | 418 | 260 | Commutator | | 80 |
| ¾ „ fly up | 402 | 236 | „ „ steady | 398 | 232 | Air in Engine Room | | 62 |
| „ „ steady | 402 | 236 | Full „ max. dip | 384 | 206 | Oil in Crank Chamber | | 86 |
| Full „ max. dip | 395 | 224 | „ „ steady | 402 | 236 | | | |
| „ „ steady | 398 | 230 | | | | | | |

STEAM CONSUMPTION IN LBS. PER K.W. Hr.

DYNAMO COMPOUNDING TRIAL.

Overload
Full load
¾ load
½ load

LOAD. VOLTS. REVS.
0
¼
½
¾
Full

WINCHES, FORWARD



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Lloyd's Register
Foundation

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