

Kobe,

3rd July, 1917.

A. L. Jones

Messrs. The Kobe Steel Works attend at their Works for the purpose of inspecting in the forged, rough turned and finished states making tests from the steel forged shafting of which particulars are given below and found the same to be as far as could be ascertained sound and free from defect.

The shafting is intended for the Single Screw Steamer No. 395, under construction at The Kawasaki Dockyard Co., Kobe.

Three Crank Shafts 14 $\frac{3}{4}$ ins. diam.

| Part | Makers Mark | Ingot No. | Ingot size | Tenacity tons per sq. " | Elong- ation | Mark finish shaft |
|---------|-------------|-----------|-----------------|-------------------------|--------------|-------------------|
| Journal | KJ10B | 27 | 38"sq. 18 tons | 30.5 | 30% | |
| " | KJ10B | 27 | " " " | 30.8 | 30% | LLO |
| Arm | KA 4B | 2409 | 41"sq. 18.7 tns | 31.2 | 31% | 4.1 |
| " | " | " | " " " | " | " | A.L. |
| Pin | KP 2B | 2491 | 38"sq. 18 tons | 30.2 | 31% | |
| Journal | KJ11B | 27 | 38"sq. 18 tons | 30.2 | 35% | |
| " | KJ 3B | 2428 | " " " | 30.28 | 35% | LLO |
| Arm | KA 1B | 20 | 41"sq. 18.7 tns | 31.5 | 32% | 4.1 |
| " | " | " | " " " | " | " | A.L. |
| Pin | KP 5B | 129 | 38"sq. 18 tons | 29.4 | 33% | |
| Journal | KJ 9B | 10 | 38"sq. 18 tons | 30.1 | 35% | |
| " | KJ 2B | 23 | " " " | 29.4 | 33% | LLO |
| Arm | KA 3B | 2428 | 41"sq. 18.7 tns | " | " | 25. |
| " | KA 3B | " | " " " | " | " | A.L. |
| Pin | KP 1B | 27 | 38"sq. 18 tons | 30.8 | 30% | |



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Kawasaki No.395 S/S
Shafting.

Six Intermediate Shafts 13 $\frac{1}{2}$ ins.diam.

| Makers' Mark | Ingot No. | Ingot size | Tenacity of forged tns | Elong- ation | Marks on finish shaft. |
|--------------|-----------|----------------|------------------------|--------------|------------------------|
| KI17B | 458 | 39"sq.17 tons | 31.4 | 35% | LLOYDS 28.3.17 |
| KI 9B | 418 | | 29.3 | 29% | .. 2.5.17 |
| KI11B | 345 | 39"sq.17 tons | 30.2 | 33% | |
| KI12B | 388 | | 30.1 | 29% | |
| KI 7B | 2491 | 39"sq.17 tons. | 31.8 | 32% | .. 16.12.1 |
| KI10B | 446 | | 29.3 | 31% | .. 2.5.17 |

One Thrust Shaft 14 $\frac{1}{2}$ ins.diam.

| | | | | | |
|-------|-----|---------------|------|-----|-----------------|
| KT 2B | 150 | 38"sq.18 tons | 31.6 | 34% | LLOYDS 14.12.18 |
|-------|-----|---------------|------|-----|-----------------|

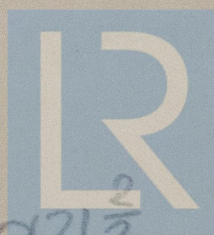
Two Propeller Shafts 16 ins.diam.

| | | | | | |
|-------|-----|---------------|------|-----|----------------|
| KS 5B | 297 | 39"sq.17 tons | 32.1 | 32% | LLOYDS 28.3.17 |
| KS 3B | 292 | 39"sq.17 tons | 29.2 | 30% | .. 23.3.17 |

A bend test was made from each forging, a bar 1"x $\frac{3}{4}$ " sect being bent over a radius of $\frac{1}{2}$ " through an angle of 180 degrees without fracture.

| | |
|----------|-------------------|
| Fee | Yen 250.00 |
| Expenses | .. 5.00 |
| | <u>Yen 255.00</u> |

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