

"Solglimt" completed 1900-5.

Calculation of Screwshaft Diameter in accordance with Rule in force when vessel was built. (i.e. Rule 1892-3 to 1900-10)

$$\frac{27\frac{1}{4} \times 46\frac{1}{4} \times 80}{55\frac{1}{8}} \times 206\frac{1}{2}$$

Diameter of Screwshaft $.038 \times 27.25 = 1.034$

$.009 \times 46.25 = .416$

$.002 \times 80 = .16$

$.0165 \times 55.125 = .91$

$\sqrt{P} = \sqrt{206} = 5.9$

$2.520 \times 5.9 = 14.88$

$= 378 \frac{\text{in}}{\text{hr.}}$

No distinction was made at that time between 2 Liner & C-L Shaft.

By Rules which came into force abt. 1900-10.

Intermed Shaft Diam = $14.88''$ (as above)

Screwshaft = $14.88 \left(.63 + \frac{.03 \times 216}{14.88} \right)$

$= 14.88 (.63 + .436) =$

$= 14.88 \times 1.066$

Rule Requires $= 14.88 \times 1.07 = 15.94 \text{ C-L}$

or

$= 405 \frac{\text{in}}{\text{hr.}}$

$15.94 \times \frac{21}{20} = 16.72 \text{ (2 LINERS)}$

$= 425 \frac{\text{in}}{\text{hr.}}$



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Present Rule (1930)

$$\text{Int Shaft} = \sqrt{\frac{80 \times 80 \times 53.125 \times 206}{2150 \times 10.68}}$$
$$= 14.69$$

$$\text{Screw Shaft (not C-L)} = 14.69 + \frac{216}{100}$$
$$= \cancel{14.906}$$
$$= 16.85"$$
$$= 426 \text{ mm}$$

7/7/30.



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