

140152
Turbine 21825
General Electric Co. Erie Pa
for Skinner & Eddie & ERIE WORKS, JAN. 9, 1920.
Report No 74 Jan 15 1920

Physical results and shafts for 3000 HP Skinner & Eddie Turbine and two plane type gears. Serial number of Turbine 21825. Serial number of Gears 4402. Requisition Pt-39692 P.O. 140152.

Turbine Shaft - Drg. #1829571, Spec. M-504, furnished by Midvale Steel & Ordnance Co. The shaft is marked S201 - V9168 - 95045 - EW-71567
Elong (% in 2") 24.5

Red. of Area (%) 52.0
(Lbs. per sq. in.) 62,000
Ult. Strength
(Lbs. per sq. in.) 93,000

Shaft & Pinion H.S. - Drg. #1935483. Spec. M-731, furnished by Midvale Steel & Ordnance Co. The shaft is marked Serial 302 - S0140152 - 2092 - Lloyds J9716
Elong (% in 2") 21.5

Red. of Area (%) 27.2
Elastic Limit
(Lbs. per sq. in.) 70,500
Ult. Strength
(Lbs. per sq. in.) 112,000

Gear Shaft H.S. - Starboard - Drg. #1889857, Spec. M-501, furnished by Erie Forge Co. The shaft is marked S0140151 - Lloyds E11 - Serial 116.
Elong (% in 2") 28.0

Red. of Area (%) 51.4
Elastic Limit
(Lbs. per sq. in.) 52,000
Ult. Strength
(Lbs. per sq. in.) 82,800

Gear Shaft H.S. - Port - Drg. #1889857, Spec. M-501, furnished by Erie Forge Co. The shaft is marked S114 - P0140051 - T2267 - E8 - Lloyds 5136
Elong (% in 2") 24.0

Red. of Area (%) 59.7
Elastic Limit
(Lbs. per sq. in.) 49,200
Ult. Strength
(Lbs. per sq. in.) 78,800



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Shaft & Pinion L.S. - Starboard - Drg.#1935420, Spec.M-731, furnished by Erie Forge Co. The shaft is marked 405 - EW-82612 - B1 - 47481 - EF5336 - ABS- 84 - CDM-E 14 - Lloyds

Elong(% in 2") 26.5
Red.of Area(%) 50.0
Elastic Limit
(Lbs.per sq.in.) 67,200
Ult.Strength
(Lbs.per sq.in.) 89,600

Shaft and Pinion L.S - Port - Drg.#1935420, Spec. M-731, furnished by Midvale Steel & Ordnance Co. The shaft is marked S404 - S0140152 - J9730

Elong(% in 2") 19.7
Red.of Area(%) 46.3
Elastic Limit
(Lbs.per sq.in.) 72,000
Ult.Strength
(Lbs.per sq.in.) 112,500

Gear Shaft L.S. Drg.#1880754, Spec.M-732, furnished by Bethlehem Steel Co. The shaft is marked S121 - SW-31743 - 5902 - 407

Elong(% in 2") 26.0
Red.of Area(%) 41.3
Elastic Limit
(Lbs.per sq.in.) 41,250
Ult.Strength
(Lbs.per sq.in.) 79,550

Flexible Shaft H.S. Drg.#1889746, Spec.M-504, furnished by Camden Forge Co. The shaft is marked S133 - EW-43655 - 83094 - S0140030 - 15

Elong(% in 2") 25.0
Red.of Area(%) 50.5
Elastic Limit
(Lbs.per sq.in.) 65,500
Ult.Strength
(Lbs.per sq.in.) 100,500

Flexible Shaft L.S. - Starboard - Drg.#1935419, Spec. M-504, furnished by Camden Forge Co. The shaft is marked S504 - EW-72139 - S0140152 - 4637 - Lloyds 2227 R.S.

Elong(% in 2") 27.5
Red.of Area(%) 57.0
Elastic Limit
(Lbs.per sq.in.) 61,200
Ult.Strength
(Lbs.per sq.in.) 94,200



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Flexible Shaft L.S. - Port - Drg.#1935419, Spec.M-504
furnished by Camden Forge Co. The shaft is marked S502 -
EW-72139 - S0140152 - 4637 - Lloyds 2231 - R2 - EN17
Elong(% in 2") 27.5

Red.of Area(%) 57.0
Elastic Limit
(Lbs.per sq.in.) 61,200
Ult.Strength
(Lbs.per sq.in.) 94,200

Flexible Shaft H.S. (Spare) Drg.#1889746, Spec.M-504,
furnished by the Crucible Steel Co. The shaft is marked S135 -
81 - P0140151
Elong(% in 2") 26.5

Red.of Area(%) 60.2
Elastic Limit
(Lbs.per sq.in.) 64,000
Ult.Strength
(Lbs.per sq.in.) 100,000

Shaft & Pinion H.S. (Spare) Drg.#1935488, Spec.M-731,
furnished by the Midvale Steel & Ordnance Co. This shaft is
marked S304 - EW-77426 - K515 - Lloyds 2262 - S0140031
Elong(% in 2") 20.5

Red.of Area(%) 48.0
Elastic Limit
(Lbs.per sq.in.) 71,500
Ult.Strength
(Lbs.per sq.in.) 110,500.

General Electric Co SIGNED

Per *R. Miller*
TURBINE ENGINEERING DEPT.



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