

No. 453.

Name, "Kewaratin" for Wm &

Built for The Canadian Pacific Railway Co.

ENGINES.	BOILERS.	VESSEL.	TRIAL DATA.
<i>Single screw</i> Cylinders, Dia., $23\frac{1}{2}$ - $34\frac{1}{2}$ - $48\frac{1}{2}$ " 70" Stroke, 3' 9" Ratio of Cyls., 8875 4.24.2088 Capacity of Cyls., 183.27 cub. ft. Crank Shaft, Dia., $13\frac{1}{2}$ " Tunnel, " 12 $\frac{1}{2}$ " Prof 15' 11" Cond. Surface, 4228 sq. ft. Propeller, Dia., 16' 6" Pitch, 16'-0" 2.15 to 17 Expd. area, 75 sq. ft. Projected area, 66 sq. ft. No. and Mat. of Blades, 4 Cast Steel.	<i>Natural draught</i> No. of Boilers, 4 S.E. Dia. of, " 14' 10" Length of, " 11' 0" Furnaces, Total No. 12 Dia. 3' 10" Grate Bar, Length, 6' 6" Tubes, Length and Dia. 7' 4" x 3 $\frac{1}{2}$ " Grate Surface, Total, 299 sq. ft. Heating, " Tubes, 7802 " " Total, 9627 Ratio of G.S. to H.S., 1132.19 Pressure per sq. in., 220 lbs Survey, Board of Trade & Lloyd's	Length, P.P., 336 Breadth, M., 43'-6" Depth, M., 27'-6" Load Draught, 17'-5 $\frac{1}{2}$ " (40) Dispt. Tons, 4967 Co-eff. 704 Mid-ship area, 724 sq. ft. Tonnage, Gross, 14912 Nett, 14912 Depth of Keel, 12' Bunker Capacity, 11 of 2.0 to 11 tons. Contract Speed, 14.2 Date of Launch, 6 th July 97	2 miles 44 hours Steam Press., Av., 225 220 Vacuum, " 265 265 Revolutions, " 9782 Max 96185 I.H.P., " 3457 3194 Total M.P., " 40.4 37.97 Speed in Knots, 14.552 14.334 Slip per cent., 5.78 5.68 Draught { Fore 14-2 of Water { Aft 18-2 Mean 16-2 Dispt. in tons, 4685 Co-eff. 699 V ^a D $\frac{1}{2}$ I.H.P., 2497 2581 V ^a A I.H.P., Date of Trial, 12 th Sept. 1907
WEIGHTS, Etc.	REMARKS.	REMARKS.	WEIGHTS
Engines, tons, Boilers, " Water in Boilers, tons, Total (no spare), " Eng. per cub. ft., " Boilers and Water per sq. ft. of H.S.],	L.H.P. per ton, $\frac{3457}{570} = 6.065$ " per sq. ft. of G.S., $\frac{3457}{299} = 11.55$ Heat. Surf. per I.H.P., $\frac{9627}{2457} = 2.78$	E 13110 14950 B 4798 4975 S 229 375 J 2163	

Same as N. 452