

Report of Survey for Repairs, etc. No. 66.

Survey held at Brest on the 11.7.29, on the machinery of the French Steel steamer "VENDEMIARE"

The s/s "VENDEMIARE" put in to Brest on the 2nd of July owing to ^{important} leaks of steam at the stuffing-boxes of the high-pressure connecting-rods.

Requested to go on board on the 11th of July, I noticed that the following repairs had already carried out :

1. the unshipping of the high-pressure connecting-rods. The longitudinal scores have been smoothed on a lathe by means of emery-paper.

2. The cross of the connecting-rod has been planed and 1 mm. of metal has been taken off at the junction of the cross with the guide-shoe. (for both HP cylinders).

3. The metal-packing of the stuffing-boxes has been renewed. The new packings are composed of each six ^(c) pieces of white and yellow metal whereas the old packings contained only 3 pieces of white metal each.

4. Examination and renewal of 2 HP. ~~ball~~ bearings. 3 connecting-rod-top-ends in the front and 6 crank-shaft-bearings had been damaged, as the engineers could not carry out the lubrication because of the engine-room being full of steam.

5. HP. pistons taken to pieces. It was found that the steel rings showed a wear of nine mm. in the thickness and the pistons a wear of 0,7 mm. to 1,1 mm. in the diameter on one side.

I have verified myself the parallelism of the connecting-rods and the guide-shoes H.P. and I have found differences amounting to 0,9 mm. on a length of 1 m. The rectification has been made by means of brass -plates, as indicated in the drawing No, 1.

After renewal of the packing of the HP. pistons, a test under steam has been made, during one hour only, as the vacuum at the condensator was only 0,500 kg.

The stuffing-boxes and the valves L.P. have been examined and found in good order.

The condensing-water-suction-turbine was surveyed and a wheel found ~~found~~ worn owing to a nut becoming loose. (This nut had no arrangement preventing it from becoming loose.) On the 18th of July a new wheel received from the makers was fitted with a new ~~ball~~ nut and screw-brake and the tests carried out again at a speed of 93 rotations.

The vacuum has been about one kilogramm at 93 rotations and at stop, the temperature of the condensator being normal. The connecting-rods

re well adjusted and moving ^{ed} ~~moving~~ parallelly to one another. No leak steam has been noticed at the stuffing-boxes. In short, the general working was good.

must however be mentioned that the overheating of the steam was carried out to its maximum in view of the fact that the engineer the maker had stated the oil used for the lubrication ~~not to be~~ superior quality. was

3. The packings of the stuffing-boxes have been found worn in an abnormal manner. Originally, the total play at the 3 cuts, when the pieces were in contact ~~the~~ with the rod, was 5 mm. Eight days later, these metal-pieces were touching one another and round the connecting there was a play of 4 to 6 mm.



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