

COPY

Lloyd's Register of Shipping.

Nagasaki, 27th October 1931.

Cert. No. 486.

This is to Certify that at the request

of Messrs. Nagasaki works, Mitsubishi Zosen Kaisha, Ltd.

the Open Hearth Steel Forgings ~~xxxx Castings~~ named below ~~were~~ examined and tested at their works on the 16th September 1931 & subsequent dates, and found to be as far as could be ascertained, sound and free from defect.

- One 1st Reduction Pinion shaft (KZF-6) blank dia 248 m/m.
- One 2nd Reduction Piston shaft (KZF-7) blank dia 425 m/m.
- One 2nd reduction wheel shaft (KZF-8) middle part dia 610 m/m.
- One 2nd reduction wheel rim (KZF-9) 2226/2103 m/m dia.
- One Turbine rotor shaft (KZF-10) 806 m/m dia at body.

All in rough turned condition.

Test Mark	Tenacity Tons/sq in	Elongation % 50cm	Reduction of Area %	Isod. Impact K.G.M.	Bend
Test Mark	Tenacity Kgs/mm ²	Elongation in 50cm/m	Yield. point Kgs/mm ²	Reduction of Area %	Isod. Impact K.G.M.
KZF-6 ^L Nickel C steel.	65.3 65.0	27.0 22.0	52.6 52.0	--	9.0 5.2
KZF-7 ^L " C "	65.3 63.7	26.0 26.0	54.6 48.1	--	7.7 5.6
KZF-8 Mild stl.	49.1	31.5	32.8	56.0	-
KZF-9 High Ten- sile stl.	55.9	31.0	37.7	62.3	-
KZF-10 ^L " C "	58.2 57.2	26.0 26.0	44.2 43.5	70.5 63.1	-

These Forgings are made to the order of Messrs. Mitsubishi Kobe Works, intended for Messrs. Mitsubishi Nagasaki Works, ship No. 503.

and ~~has~~ have been stamped as follows:—

Fee Yen 180:00

Expenses "

LLOYD'S
No. 489
KZF-6
G.A. 20-10-31

LLOYD'S
No. 493
KZF-7
G.A. 23-10-31

LLOYD'S
No. 486
KZF-8
G.A. 6-10-31

LLOYD'S
No. 490
KZF-9
G.A. 20-10-31

LLOYD'S
No. 491
KZF-10
G.A. 20-10-31

George Anderson T. Kumishu

Surveyor to Lloyd's Register.

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