

FOR LONDON

SUMITOMO METAL INDUSTRIES, LTD.
STEEL TUBE WORKS

1, NISHINO-CHO, HIGASHI-MUKOJIMA

HEAD OFFICE
15-SHOME KITAHAMA
HIGASHI-KU, OSAKA

AMAGASAKI, JAPAN

CABLE ADDRESS
"SUMITOMO METAL AMAGASAKI"Mitsubishi Heavy Ind., Ltd.
Kobe Shipyard & Engine Works

Customer:

Article:

Pipe (Hot finished)

9 16698
MILL CERTIFICATE

Date: 5, July 1966

Mill Sheet No.: LR- 904

U

Rule: Lloyd's

P

(00)

Ship Builder

Ship Name or No.:

964

Fy

Work No.	Test No.	Size			Quantity	
		Outside Diameter mm	Thickness mm	Length mm	No. of pieces	Weight Kg
A 5159	1	89.1	5.5	5500	13	809

Description of Tests

Surface & Dimension	Hydrostatic (Kg/cm ²)	Flattening	Expansion	Flaring	Flange
good	70 good	good			

Test No.	Tensile Properties		
	Yield Point (kg/mm ²)	Tensile Strength (kg/mm ²)	Elongation (%) in 50 mm
min.		36	28
max.		47	
		38.7	36

	Chemical Analysis %					Ladle/Check			
	C	Si	Mn	P	S	Cu	Cr	Mo	Ni
min.									
max.									
	.09	.23	.42	.014	.015				

Surveyor to LLOYD'S REGISTER OF SHIPPING

We hereby certify that the material described herein has been made by the open hearth process, in accordance with the Rules of Lloyd's Register of Shipping and that has been satisfactorily tested in the presence of the Surveyor.

SUMITOMO METAL INDUSTRIES, LTD.
STEEL TUBE WORKSLloyd's Register
Foundation

004364-004368-0099