

Micrographs etc.

RETAIN

Investigation - "Charles Pratt," "H. Barstow,"

fractured shell piling

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to accompany report

1-Nov-33

LR

W375-0189

Enclosure 1

Oil Tank Steamer "Charles Pratt."

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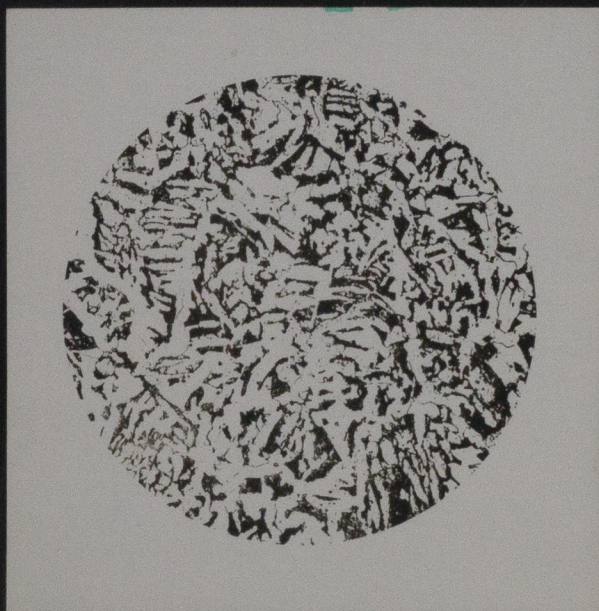
fractured shell plating.

plate "C12" starboard.

Note

Photograph, enclosure 4, shows positions

from which sections were taken.



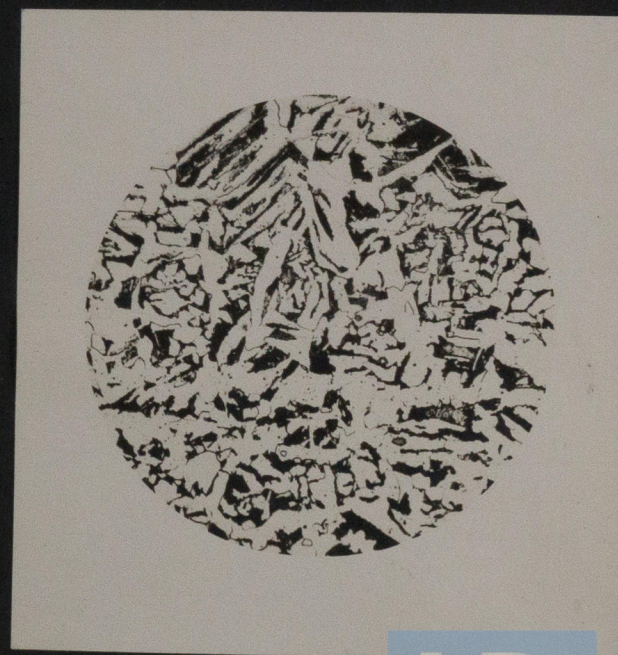
N° 385 (Longitudinal) X100

Chemical
Composition

C	28.6%
Mn	.40
Si	.016
S	.044
P	.025

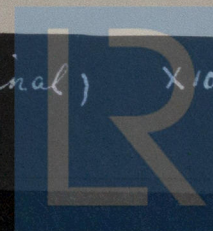
Mechanical
properties
(transverse)

Max S	}	28.7
Tens, sq in		
Elong % 8"		21
Reduct of area %	}	41.3
Cold Bend	}	Good



N° 389 (Longitudinal) X100

W373-0190



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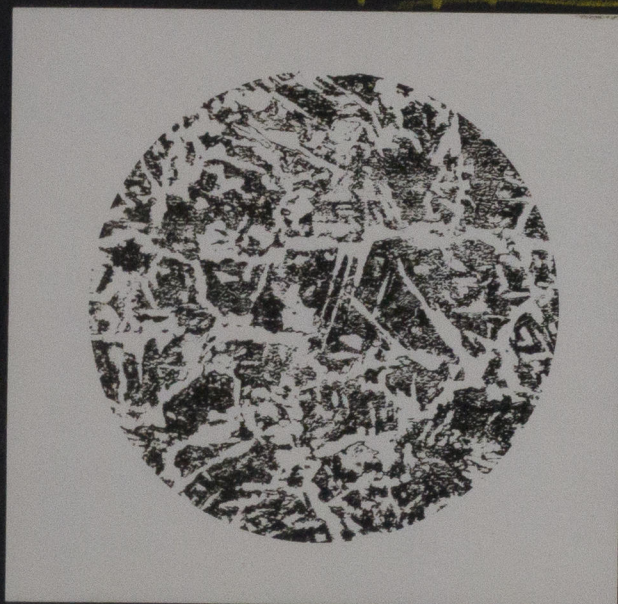
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Enclosure 2

"
Oil Tank Steamer, " # Q Barstow,"

fractured shell plating, plate "E & Y" starboard

Note Photo, enclosure 4, shows positions of sections,



Nº 384 (Transverse) X 100

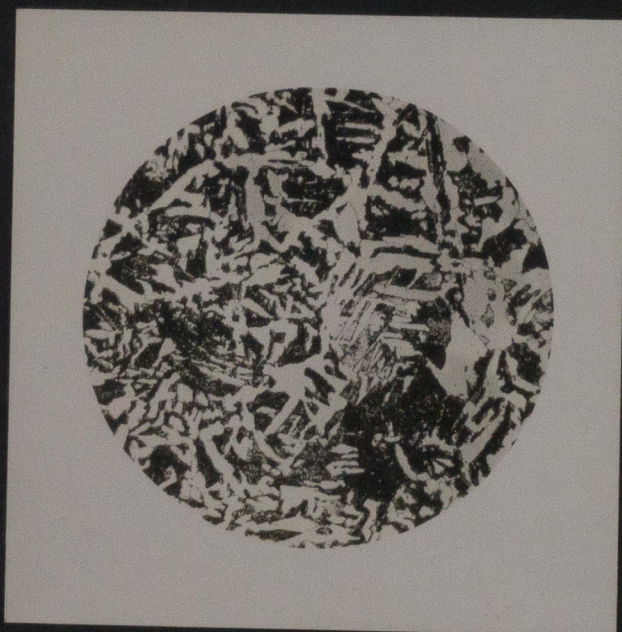
Chemical
Composition
(Average)

C .391 %
Mn .360
Si .018
S .031
P .025

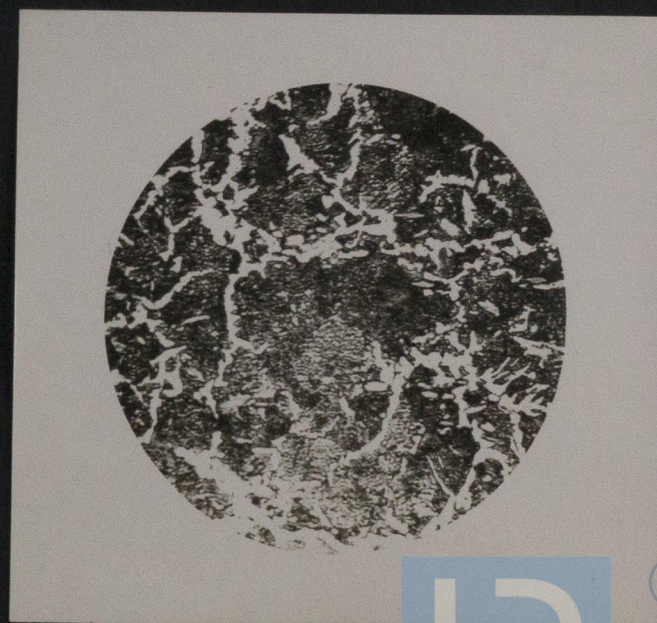
Mechanical
properties (transverse)

yield point, 15.8 Tons/in²
Max Stress, 33.7 " "
Elong % .8, 12
Reduction %, 13
Cold bend 90° broken

Nº 388. - Shows centre of section,

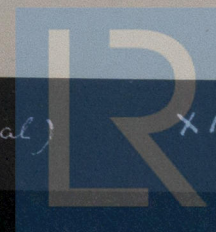


Nº 386 (Longitudinal) X 100



Nº 388 (Longitudinal) X 100

W 873-0191

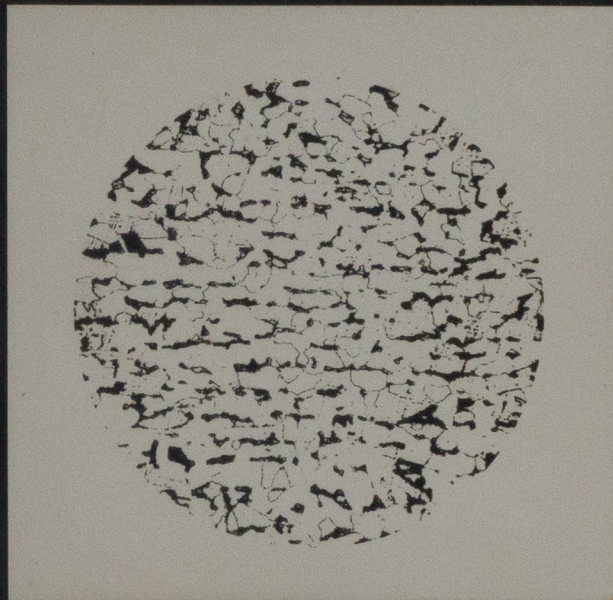


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Enclosure 3



No 390 (Longitudinal) X 100

<u>No 390.</u>		<u>No 391</u>
.15%	C	.13%
.66	Mn	.70
.045	Si	.046
.049	S	.050
.032	P	.030
28.1	Max S.	28.5
27	Elong % 8"	22
Good.	Bends.	Good.

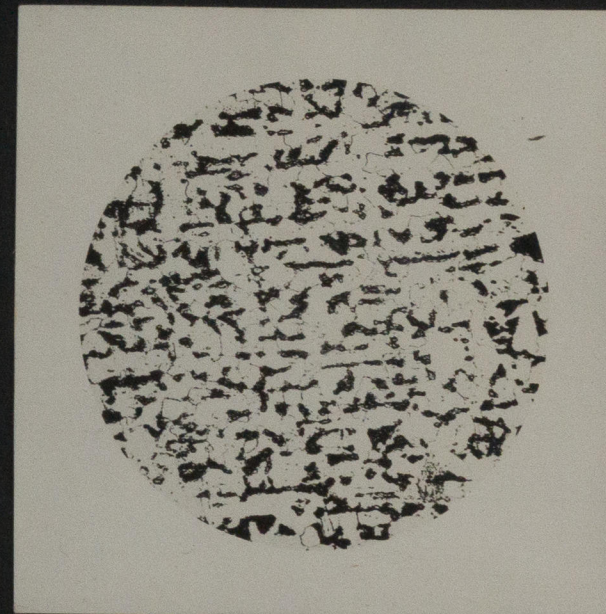
British Ship plate material,

Basic BH (Galbot) steel,

fairly typical.

No 39075" thick.

No 39165" thick.



No 391 (Longitudinal) X 100

W373-0192



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fractured edge

Enclosure 4.

Fractured

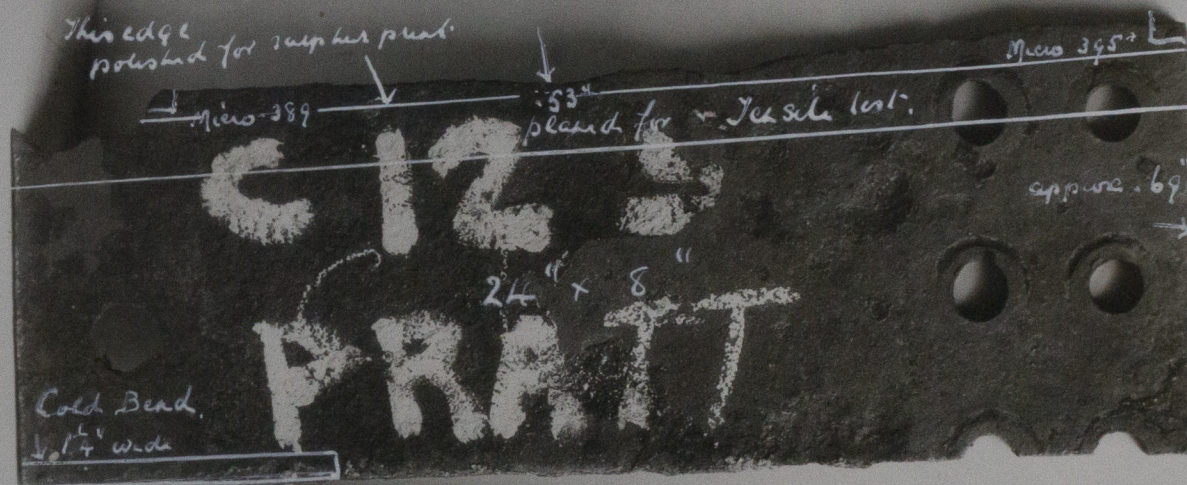
Shell

plating

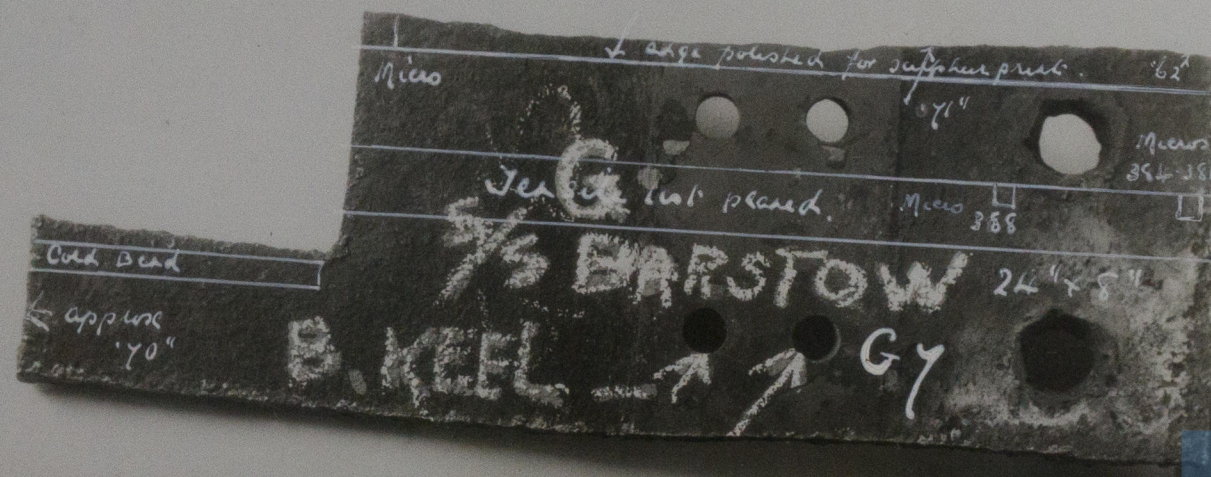
Tank Steamers

"Charles Pratt"

"F. L. Barstow"



fractured edge. Electric welding on under side.



1373-0193



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