



Fuso

BB JAPAN

2708-0 FUSO Class

1915 to 1922

Displacement
Complement
Sunk 10/25/1944

29,326 ts
1193

Length
Beam
Draft

665 ft
94 ft
28 ft

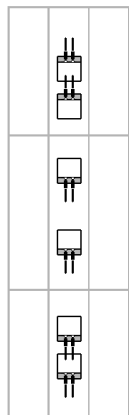
Kure Navy Yard
Launched
Completed

03/28/1914
11/08/1915



SHIP LOG SHEET

Version 3/6/2009



12 x 36cm/45 Types 43,41

49

Max ROF	1.8 sh/min
Range	23,917 yds 47.8"
Shell Size/Weight	14.0" 1400.0 lbs.

Fire Control	2	1Q2
FC Radar	+ 0	
AP	SAP	
COM	HE	

AA	0.0	Level	S	Ammunition	90 rpg	1080
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FIRE CONTROL TABLE							
T Kts	Short	Medium	Long	Extreme			
0 - 9	14	9	9	6	7	4	6
10 - 18	10	6	7	4	5	3	4
19 - 27	8	5	5	3	4	3	2
28 - 36	7	4	5	3	3	2	3
37 - 45	6	4	4	3	3	2	3

APC		PENETRATION TABLE												
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	3.6	3.6	3.6	3.6	3.6	3.6	3.1	2.6	2.2	1.8				
Rge	S	S	S	S	M	M	M	L	L	L				
H	0.5	1.0	1.3	1.6	1.9	2.1	2.4	3.0	4.0	5.6				
V	22.2	19.6	17.3	15.1	13.2	11.6	9.6	7.3	6.9	6.6				

16 x 15cm/50 41st Year

16

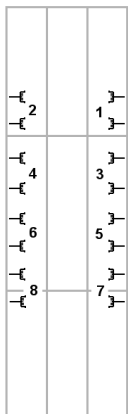
Max ROF	5.0 sh/min
Range	13,360 yds 26.7"
Shell Size/Weight	6.0" 100.0 lbs.

Fire Control	2	2Q2
FC Radar	+ 0	
AP	SAP	
COM	HE	

AA	0.0	Level	S	Ammunition	200 rpg	3200
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FIRE CONTROL TABLE							
T Kts	Short	Medium	Long	Extreme			
0 - 9	11	7	7	5	5	3	4
10 - 18	8	5	5	3	4	2	3
19 - 27	6	4	4	3	3	2	3
28 - 36	5	3	4	2	3	2	2
37 - 45	5	3	3	2	2	2	2

AP		PENETRATION TABLE												
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.8	6.5	5.3	4.3	3.5	2.9	2.6							
Rge	S	S	S	M	M	L	L							
H	0.1	0.3	0.4	0.5	0.6	0.9	1.2							
V	4.8	3.5	2.5	2.0	1.7	1.6	1.5							



Crew	Sea	BR	Targ Sz	Ops
			2	

Captain

Using 14" 3crh Type 1 APC shell.

AIRCRAFT			
Aircraft	0	Catapult	0

TORPEDOES			
2	1	TT	6
		Ammo	12
		21" Mk I	
		Damage Class	F
		Settings	
		3,000/45	
		7,000/30	
MINES			
		0	

RAPID FIRE BATTERIES	
RF1	None
Max Rg	
Eff Rg	

RF	0	Port					Stbd				
AA		Port					Stbd				

RF2	None
Max Rg	
Eff Rg	

RF	0	Port					Stbd				
AA		Port					Stbd				

RF3	None
Max Rg	
Eff Rg	

RF		Port					Stbd				
AA		Port					Stbd				

T#	BTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RND	HITS

Coal (ts)	5022	Oil (ts)	1026	Radius (nm/kts)	8000	14	Search Radar	None	ASW MORTARS/ATW	0	DEPTH CHARGES	Rack	0
Engines	Brown-Curtis GT						None		None		Ammo	0	
Boilers	24 Miyabara						None						

TIER	DP	DP	3111						
1/70	311	KTS	22						
2/80	622								
3/75	933	Engine Rm	2	22	13	0	0	0	0
4/85	1244	Prop/Shaft	4	22	19	11	3	0	0
5/80	1556	Boiler Rm	4	22	20	14	5	0	0
6/90	1835								
7/85	2115	Speed	00-10 kt	11-14 kt	15+ kt				
8/95	2395	Increase	3.0	2.0	1.0				
9/90	2675	Crew							
10	2955	Bridge Command Rating							
10	3142	Flag Command Rating							
		Damage Control (DCR)							
			8						

Fuel Code	BB2E		
ARMOR	0.83	Actual	
1H DECK	1.7		2.0
2H TURRET	3.7		4.5
3H SUPERSTR	2.5		3.0
4V CON	11.5		13.8
5V BELT MID	10.0		12.0
6V BELT END	3.3		4.0
7V BARBETTE	10.0		12.0
8V TURRET	9.1		11.0
9V SUPERSTR	4.1		5.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER	
																					AF	Obey signals from Flagship
																					AI	Independent Action
																					AX	Battle Stations!
																					AA	Abandon ship!
																					AZ	Strike colors
																					COURSE AND SPEED	
																					CA	Midships steady
																					CP #	Alter course to PORT
																					CS #	Alter course to STARBOARD
																					SF	Ahead full
																					SR#	Revolutions for # knots
																					SA	Full astern
																					SS	All stop
																					ILLUMINATION AND EVASION	
																					EX	Evasive action
																					KX	Lay smoke
																					IS ##	Illuminate using starshell
																					IL #	Illuminate using searchlight
																					TORPEDO AND AIRCRAFT	
																					TR (X)	Prepare to launch torpedoes to (X)
																					TL (X)	Launch torpedoes to (X)
																					VL	Prepare to launch aircraft
																					VX	Launch aircraft
																					PRIMARY BATTERY	
																					B1D	Directed fire as range permits
																					B1V	Coordinated fire
																					B1L	Local control as range permits
																					B1P	Split fire
																					B1C	Change target
																					B1B	Barrage fire as range permits
																					SECONDARY BATTERY	
																					B2D	Directed fire as range permits
																					B2L	Local control as range permits
																					B2P	Split fire
																					B2C	Change target
																					B2B	Barrage fire as range permits
																					RF BATTERY	
																					R5B	Barrage fire as range permits
																					R6B	Barrage fire as range permits
																					R7B	Barrage fire as range permits

LOSS OF SPEED DURING TURNS																			
KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

TURNING SEGMENTS	
DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING							
T#	Fire	Current Severity		T#	Fire	Current Severity	

FIGHTING SHIPBOARD FIRES			
NO DAMAGE CONTROL		DAMAGE CONTROL	
ROLL	EFFECT ON FIRE	ROLL	EFFECT ON FIRE
01-03	-20 from severity	01-05	Fire extinguished
04-12	-10 from severity	06-15	-30 from severity
13-50	No change	16-45	-20 from severity
51-85	+10 to severity	46-75	-10 from severity
86-95	+30 to severity	76-90	No change
96-00	+40 to severity	91-00	+10 to severity



Fuso

BB JAPAN

2708-2 FUSO Class

1933 to 1942

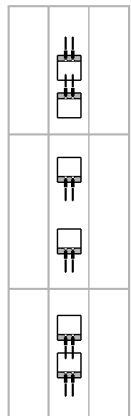
Displacement
Complement
Sunk 10/25/1944

34,700 ts | Length 689 ft | Kure Navy Yard
1193 | Beam 100 ft | Launched 03/28/1914
Draft 32 ft | Completed 11/08/1915



SHIP LOG SHEET

Version 3/6/2009

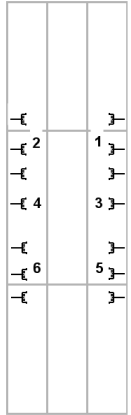


12 x 36cm/45 Types 43,41 49

Max ROF		Range		Shell Size/Weight	
2.0 sh/min		38,768 yds 77.5"		14.0" 1485.0 lbs.	
Fire Control		FC Radar		+ 0	
2 1G3		None		AP SAP COM HE	
AA	0.0	Level	S	Ammunition	90 rpg 1080

FIRE CONTROL TABLE												
T Kts	Short	Medium	Long	Extreme								
0 - 9	21	14	16	11	14	9	12	8				
10 - 18	16	11	12	8	11	7	9	6				
19 - 27	14	9	11	7	9	6	8	5				
28 - 36	12	8	9	6	8	5	7	5				
37 - 45	11	7	9	6	7	5	7	4				

APCBC PENETRATION TABLE														
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.0	2.6	2.3	2.0	1.8	1.6	1.4
Rge	S	S	S	S	S	M	M	M	M	L	L	L	E	E
H	0.3	0.7	1.1	1.5	1.8	2.2	2.6	2.9	3.2	3.6	4.4	5.6	7.7	10.8
V	24.6	23.0	21.5	20.0	18.5	17.2	15.3	13.6	12.2	11.0	9.9	9.0	8.2	7.5



14 x 15cm/50 41st Year 16

Max ROF		Range		Shell Size/Weight	
5.5 sh/min		20,656 yds 41.3"		6.0" 100.0 lbs.	
Fire Control		FC Radar		+ 0	
2 2J2		None		AP SAP COM HE	
AA	2.6	Level	S	Ammunition	200 rpg 2800

FIRE CONTROL TABLE												
T Kts	Short	Medium	Long	Extreme								
0 - 9	15	9	11	7	8	5	7	5				
10 - 18	10	7	7	5	6	4	5	3				
19 - 27	9	5	6	4	5	3	4	3				
28 - 36	7	5	5	3	4	3	4	2				
37 - 45	7	4	5	3	4	2	3	2				

CPC PENETRATION TABLE														
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.8	6.7	5.7	4.8	4.0	3.4	2.7	2.1	1.8					
Rge	S	S	S	M	M	M	L	E	E					
H	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.7	2.3					
V	6.5	5.3	4.3	3.3	2.5	2.1	1.7	1.6	1.7					



8 x 12.7cm/40 Type 89 13

Max ROF		Range		Shell Size/Weight	
12.0 sh/min		16,185 yds 32.4"		5.0" 51.7 lbs.	
Fire Control		FC Radar		+ 0	
2 2G2		None		AP SAP COM HE	
AA	2.7	Level	V	Ammunition	360 rpg 2880

FIRE CONTROL TABLE												
T Kts	Short	Medium	Long	Extreme								
0 - 9	16	10	12	7	9	6	8	5				
10 - 18	12	7	8	5	7	4	6	4				
19 - 27	10	6	7	4	5	3	5	3				
28 - 36	8	5	6	4	5	3	4	2				
37 - 45	7	5	5	3	4	3	4	2				

HE PENETRATION TABLE														
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	5100	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	Kampon GT			11800 16		None		0		Rack 0	
Boilers	6 Kampon					None		None		Ammo 0	

Crew	Sea	BR	Targ Sz	Ops
			3	

AIRCRAFT					
Aircraft	3	Catapult	1		
E4N-2		1	1	23	
125 kts	80 kts	18830 ft			

TORPEDOES			
TT	0	Ammo	0
None			
Damage Class			
Settings			
MINES			
	0		

RAPID FIRE BATTERIES							
RF1	16	25mm/60 Type 96					
Max Rg	7,440	14.9"	7	5			
Eff Rg	3,348	6.7"	11	8			
RF	Port	8	6	4	3	1	
5	Stbd	8	6	4	3	1	
AA	Port	33	26	18	11	5	
M	Stbd	33	26	18	11	5	

RF2	None						
Max Rg							
Eff Rg							
RF	Port						
0	Stbd						
AA	Port						
	Stbd						

RF3	None						
Max Rg							
Eff Rg							
RF	Port						
	Stbd						
AA	Port						
	Stbd						

Captain	
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T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RND	HITS



Yamashiro

BB JAPAN
2081-0 FUSO Class

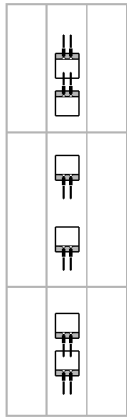
1917 to 1922

Displacement
Complement
Sunk 10/25/1944

29,326 ts
1193

Length 665 ft
Beam 94 ft
Draft 28 ft

Yokosuka Navy Yard
Launched 11/03/1915
Completed 03/31/1917



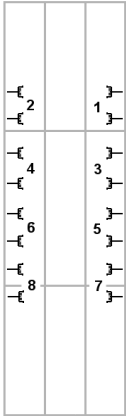
12 x 36cm/45 Types 43,41

49

FIRE CONTROL TABLE						
T Kts	Short	Medium	Long	Extreme		
0 - 9	14	9	6	7	4	6 4
10 - 18	10	6	7	4	5	3 4 3
19 - 27	8	5	5	3	4	3 3 2
28 - 36	7	4	5	3	3	2 3 2
37 - 45	6	4	4	3	3	2 3 2

Max ROF 1.8 sh/min		Range 23,917 yds 47.8"		Shell Size/Weight 14.0" 1400.0 lbs.	
Fire Control 2 1Q2			FC Radar None	+ 0	
AA	0.0	Level	S	Ammunition 90 rpg 1080	

APC	PENETRATION TABLE													
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	3.6	3.6	3.6	3.6	3.6	3.6	3.1	2.6	2.2	1.8				
Rge	S	S	S	S	M	M	M	L	L	L				
H	0.5	1.0	1.3	1.6	1.9	2.1	2.4	3.0	4.0	5.6				
V	22.2	19.6	17.3	15.1	13.2	11.6	9.6	7.3	6.9	6.6				



16 x 15cm/50 41st Year

16

FIRE CONTROL TABLE					
T Kts	Short	Medium	Long	Extreme	
0 - 9	11	7	7	5	5 3 4 3
10 - 18	8	5	5	3	4 2 3 2
19 - 27	6	4	4	3	3 2 3 2
28 - 36	5	3	4	2	3 2 2 1
37 - 45	5	3	3	2	2 2 2 1

Max ROF 5.0 sh/min		Range 13,360 yds 26.7"		Shell Size/Weight 6.0" 100.0 lbs.	
Fire Control 2 2Q2			FC Radar None	+ 0	
AA	0.0	Level	S	Ammunition 200 rpg 3200	

AP	PENETRATION TABLE													
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.8	6.5	5.3	4.3	3.5	2.9	2.6							
Rge	S	S	S	M	M	L	L							
H	0.1	0.3	0.4	0.5	0.6	0.9	1.2							
V	4.8	3.5	2.5	2.0	1.7	1.6	1.5							

Crew	Sea	BR	Targ Sz	Ops
			2	
AIRCRAFT				
Aircraft	0	Catapult	0	

2	1	TORPEDOES	
		TT	6 Ammo 12
		21" Mk I	
4	3	Damage Class	F
		Settings	
		3,000/45	
6	5	7,000/30	
		MINES	
		0	

RAPID FIRE BATTERIES					
RF1	None				
Max Rg					
Eff Rg					
RF	Port				
0	Stbd				
AA	Port				
	Stbd				
RF2	None				
Max Rg					
Eff Rg					
RF	Port				
0	Stbd				
AA	Port				
	Stbd				
RF3	None				
Max Rg					
Eff Rg					
RF	Port				
	Stbd				
AA	Port				
	Stbd				

Captain														
Using 14" 3crh Type 1 APC shell. Fitted with flying-off platform on turret 2 (1917-1922)														
T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RND	HITS				

Coal (ts)	5022	Oil (ts)	1026	Radius (nm/mts)	Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	Brown-Curtis GT			8000 14	None		0		Rack	0
Boilers	24 Miyabara				None		None		Ammo	0



Yamashiro

BB JAPAN

2081-2 FUSO Class

1935 to 1942

Displacement
Complement
Sunk 10/25/1944

34,700 ts
1193

Length
Beam
Draft

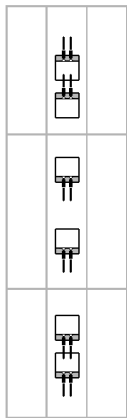
689 ft
100 ft
32 ft

Yokosuka Navy Yard
Launched 11/03/1915
Completed 03/31/1917



SHIP LOG SHEET

Version 3/6/2009



12 x 36cm/45 Types 43,41

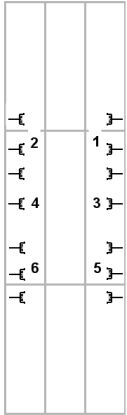
49

Max ROF		Range		Shell Size/Weight	
2.0	sh/min	38,768 yds	77.5"	14.0"	1485.0 lbs.
Fire Control		FC Radar	+ 0	AP	SAP
2	1G3	None		COM	HE
AA	0.0	Level	S	Ammunition	90 rpg 1080

FIRE CONTROL TABLE

T Kts	Short	Medium	Long	Extreme
0 - 9	21 14 16 11	14 9 12 8		
10 - 18	16 11 12 8	11 7 9 6		
19 - 27	14 9 11 7	9 6 8 5		
28 - 36	12 8 9 6	8 5 7 5		
37 - 45	11 7 9 6	7 5 7 4		

APCBC	PENETRATION TABLE													
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.0	2.6	2.3	2.0	1.8	1.6	1.4
Rge	S	S	S	S	M	M	M	M	L	L	L	E	E	E
H	0.3	0.7	1.1	1.5	1.8	2.2	2.6	2.9	3.2	3.6	4.4	5.6	7.7	10.8
V	24.6	23.0	21.5	20.0	18.5	17.2	15.3	13.6	12.2	11.0	9.9	9.0	8.2	7.5



14 x 15cm/50 41st Year

16

Max ROF		Range		Shell Size/Weight	
5.5	sh/min	20,656 yds	41.3"	6.0"	100.0 lbs.
Fire Control		FC Radar	+ 0	AP	SAP
2	2J2	None		COM	HE
AA	2.6	Level	S	Ammunition	200 rpg 2800

FIRE CONTROL TABLE

T Kts	Short	Medium	Long	Extreme
0 - 9	15 9 11 7	8 5 7 5		
10 - 18	10 7 7 5	6 4 5 3		
19 - 27	9 5 6 4	5 3 4 3		
28 - 36	7 5 5 3	4 3 4 2		
37 - 45	7 4 5 3	4 2 3 2		

CPC	PENETRATION TABLE													
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.8	6.7	5.7	4.8	4.0	3.4	2.7	2.1	1.8					
Rge	S	S	S	M	M	M	L	E	E					
H	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.7	2.3					
V	6.5	5.3	4.3	3.3	2.5	2.1	1.7	1.6	1.7					



8 x 12.7cm/40 Type 89

13

Max ROF		Range		Shell Size/Weight	
12.0	sh/min	16,185 yds	32.4"	5.0"	51.7 lbs.
Fire Control		FC Radar	+ 0	AP	SAP
2	2G2	None		COM	HE
AA	2.7	Level	V	Ammunition	360 rpg 2880

FIRE CONTROL TABLE

T Kts	Short	Medium	Long	Extreme
0 - 9	16 10 12 7	9 6 8 5		
10 - 18	12 7 8 5	7 4 6 4		
19 - 27	10 6 7 4	5 3 5 3		
28 - 36	8 5 6 4	5 3 4 2		
37 - 45	7 5 5 3	4 3 4 2		

HE	PENETRATION TABLE													
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	5100	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	Kampon GT			11800 16		None		0		Rack 0	
Boilers	6 Kampon					None		None		Ammo 0	

Crew	Sea	BR	Targ Sz	Ops
			3	

AIRCRAFT

Aircraft	3	Catapult	1
E4N-2		1 1 23	
125 kts	80 kts	18830 ft	

TORPEDOES

TT	0	Ammo	0
----	---	------	---

None

Damage Class

Settings

MINES

0

RAPID FIRE BATTERIES

RF1 16 25mm/60 Type 96

Max Rg	7,440	14.9"	7	5
Eff Rg	3,348	6.7"	11	8

RF	Port	8	6	4	3	1
----	------	---	---	---	---	---

5	Stbd	8	6	4	3	1
---	------	---	---	---	---	---

AA	Port	33	26	18	11	5
----	------	----	----	----	----	---

M	Stbd	33	26	18	11	5
---	------	----	----	----	----	---

RF2 None

Max Rg

Eff Rg

RF	Port					
----	------	--	--	--	--	--

0	Stbd					
---	------	--	--	--	--	--

AA	Port					
----	------	--	--	--	--	--

	Stbd					
--	------	--	--	--	--	--

RF3 None

Max Rg

Eff Rg

RF	Port					
----	------	--	--	--	--	--

	Stbd					
--	------	--	--	--	--	--

AA	Port					
----	------	--	--	--	--	--

	Stbd					
--	------	--	--	--	--	--

Captain

T# BTTY TARGET SHIP SHELL FCS BR H RANGE R #RND5 HITS

Main battle log table grid with columns for target identification, ammunition used, and hit status.



Yamashiro

BB JAPAN

2081-3 FUSO Class

1943 to 1944

Displacement
Complement
Sunk 10/25/1944

34,700 ts
1193

Length
Beam
Draft

689 ft
100 ft
32 ft

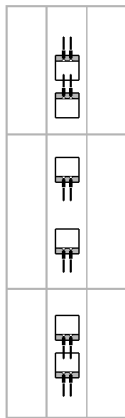
Yokosuka Navy Yard
Launched
Completed

11/03/1915
03/31/1917



SHIP LOG SHEET

Version 3/6/2009



12 x 36cm/45 Types 43,41

49

Max ROF		Range		Shell Size/Weight	
2.0	sh/min	38,768 yds	77.5"	14.0"	1485.0 lbs.
Fire Control		FC Radar		+ 0	
2	1G3	None		AP	SAP
				COM	HE
AA	Level	S		Ammunition	
0.0				90 rpg	1080

FIRE CONTROL TABLE						
T Kts	Short	Medium	Long	Extreme		
0 - 9	21	14	16	11	14	9 12 8
10 - 18	16	11	12	8	11	7 9 6
19 - 27	14	9	11	7	9	6 8 5
28 - 36	12	8	9	6	8	5 7 5
37 - 45	11	7	9	6	7	5 7 4

APCBC		PENETRATION TABLE												
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.0	2.6	2.3	2.0	1.8	1.6	1.4
Rge	S	S	S	S	M	M	M	M	L	L	L	E	E	E
H	0.3	0.7	1.1	1.5	1.8	2.2	2.6	2.9	3.2	3.6	4.4	5.6	7.7	10.8
V	24.6	23.0	21.5	20.0	18.5	17.2	15.3	13.6	12.2	11.0	9.9	9.0	8.2	7.5

Crew	Sea	BR	Targ Sz	Ops
			3	

Captain

Type 2 M2 radar fitted during 1943.

AIRCRAFT				
Aircraft	3		Catapult	1
F1M-2 Pete		2 1 30		
200 kts	120 kts	30970 ft		

TORPEDOES		
TT	0	Ammo 0
None		
Damage Class		
Settings		

None		
Damage Class		
Settings		

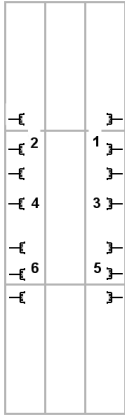
MINES		
0		

RAPID FIRE BATTERIES				
RF1	37	25mm/60 Type 96		
Max Rg	7,440	14.9"	7	5
Eff Rg	3,348	6.7"	11	8
RF	Port	19	15	10 6 3
5	Stbd	19	15	10 6 3
AA	Port	75	60	41 25 11
M	Stbd	75	60	41 25 11

RAPID FIRE BATTERIES				
RF2	None			
Max Rg				
Eff Rg				
RF	Port			
0	Stbd			
AA	Port			
	Stbd			

RAPID FIRE BATTERIES				
RF3	None			
Max Rg				
Eff Rg				
RF	Port			
0	Stbd			
AA	Port			
	Stbd			

RAPID FIRE BATTERIES				
RF3	None			
Max Rg				
Eff Rg				
RF	Port			
0	Stbd			
AA	Port			
	Stbd			



14 x 15cm/50 41st Year

16

Max ROF		Range		Shell Size/Weight	
5.5	sh/min	20,656 yds	41.3"	6.0"	100.0 lbs.
Fire Control		FC Radar		+ 0	
2	2J2	None		AP	SAP
				COM	HE
AA	Level	S		Ammunition	
2.6				200 rpg	2800

FIRE CONTROL TABLE						
T Kts	Short	Medium	Long	Extreme		
0 - 9	15	9	11	7	8	5 7 5
10 - 18	10	7	7	5	6	4 5 3
19 - 27	9	5	6	4	5	3 4 3
28 - 36	7	5	5	3	4	3 4 2
37 - 45	7	4	5	3	4	2 3 2

CPC		PENETRATION TABLE												
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.8	6.7	5.7	4.8	4.0	3.4	2.7	2.1	1.8					
Rge	S	S	S	M	M	M	L	E	E					
H	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.7	2.3					
V	6.5	5.3	4.3	3.3	2.5	2.1	1.7	1.6	1.7					



8 x 12.7cm/40 Type 89

13

Max ROF		Range		Shell Size/Weight	
12.0	sh/min	16,185 yds	32.4"	5.0"	51.7 lbs.
Fire Control		FC Radar		+ 0	
2	2G2	None		AP	SAP
				COM	HE
AA	Level	V		Ammunition	
2.7				360 rpg	2880

FIRE CONTROL TABLE						
T Kts	Short	Medium	Long	Extreme		
0 - 9	16	10	12	7	9	6 8 5
10 - 18	12	7	8	5	7	4 6 4
19 - 27	10	6	7	4	5	3 5 3
28 - 36	8	5	6	4	5	3 4 2
37 - 45	7	5	5	3	4	3 4 2

HE		PENETRATION TABLE												
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	5100	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	Kampon GT			11800	16	No.13 Type 3 M1		0		Rack	0
Boilers	6 Kampon					No.22 M4		None		Ammo	0

TIER	DP	DP	3384									Fuel Code	BB3C										
1/70	338	KTS	24																				
2/80	677											ARMOR		0.83	Actual								
3/75	1015	Engine Rm	2	24	14	0	0	0	0	Standard Turn	Target Sz	1H DECK	3.2	3.8									
4/85	1354	Prop/Shaft	4	24	21	12	3	0	0	45	3	2H TURRET	3.7	4.5									
5/80	1692	Boiler Rm	2	24	15	0	0	0	0	Emergency Turn	Searchlights	3H SUPERSTR	2.7	3.3									
6/90	1997											60	Port	Stbd	4V CON	11.5	13.8						
7/85	2301	Speed	00-19 kt	20+ kt							Crew	5V BELT MID	10.0	12.0									
8/95	2606	Increase	3.0	1.0								6V BELT END	3.3	4.0									
9/90	2910														7V BARBETTE	10.0	12.0						
10	3215	Bridge Command Rating	Flag Command Rating		Damage Control (DCR)						8			8V TURRET	9.1	11.0							
10	3418														9V SUPERSTR	4.2	5.1						

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER	
																					AF	Obey signals from Flagship
																					AI	Independent Action
																					AX	Battle Stations!
																					AA	Abandon ship!
																					AZ	Strike colors
COURSE AND SPEED																						
																					CA	Midships steady
																					CP #	Alter course to PORT
																					CS #	Alter course to STARBOARD
																					SF	Ahead full
																					SR#	Revolutions for # knots
																					SA	Full astern
																					SS	All stop
ILLUMINATION AND EVASION																						
																					EX	Evasive action
																					KX	Lay smoke
																					IS ##	Illuminate using starshell
																					IL #	Illuminate using searchlight
TORPEDO AND AIRCRAFT																						
																					TR (X)	Prepare to launch torpedoes to (X)
																					TL (X)	Launch torpedoes to (X)
																					VL	Prepare to launch aircraft
																					VX	Launch aircraft
PRIMARY BATTERY																						
																					B1D	Directed fire as range permits
																					B1V	Coordinated fire
																					B1L	Local control as range permits
																					B1P	Split fire
																					B1C	Change target
																					B1B	Barrage fire as range permits
SECONDARY BATTERY																						
																					B2D	Directed fire as range permits
																					B2L	Local control as range permits
																					B2P	Split fire
																					B2C	Change target
																					B2B	Barrage fire as range permits
TERTIARY AND RF BATTERY																						
																					B3D	Directed fire as range permits
																					B3L	Local Control as range permits
																					B3P	Split fire
																					B3C	Change target
																					R5B	Barrage fire as range permits
																					R6B	Barrage fire as range permits
																					R7B	Barrage fire as range permits

T#	DE #	SEVERITY	DESCRIPTION

LOSS OF SPEED DURING TURNS																		TURNING SEGMENTS			
KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	DEG OF TURN	SEGMENTS
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	TO 15	2 Segments*
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	16 TO 45	2 Segments
																				46 TO 90	3 Segments
																				91 TO 135	4 Segments
																				136 TO 180	5 Segments

SHIPBOARD FIRE TRACKING					
T#	Fire	Current Severity	T#	Fire	Current Severity

FIGHTING SHIPBOARD FIRES			
NO DAMAGE CONTROL		DAMAGE CONTROL	
ROLL	EFFECT ON FIRE	ROLL	EFFECT ON FIRE
01-03	-20 from severity	01-05	Fire extinguished
04-12	-10 from severity	06-15	-30 from severity
13-50	No change	16-45	-20 from severity
51-85	+10 to severity	46-75	-10 from severity
86-95	+30 to severity	76-90	No change
96-00	+40 to severity	91-00	+10 to severity