Kumano

CL JAPAN 1937 to 1939

2159-0 SUZUYA Class

Displacement	11,200 ts	*Length*	650 ft	Kawasaki, Kobe	
Complement	850	*Beam*	63 ft	*Launched*	10/15/1936
Sunk 11/25/1944		*Draft*	19.3 ft	*Completed*	10/31/1937

SEEKRIEG 5

SHIP LOG SHEET

Version 12/25/2005

15 x 15.5cm/60 Type 3 — 18

Max ROF	Range		Shell Size/Weight	
5.0 sh/min	29,965 yds	59.9"	6.1"	123.2 lbs.

Fire Control			FC Radar	+ 0
2		1F3	None	

AP	SAP
COM	HE

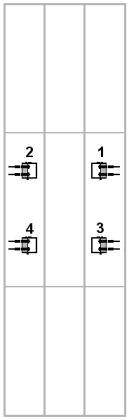
AA	2.7	Level	V	Ammunition	150 rpg	2250

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC 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	7.9	6.9	6.0	5.2	4.5	4.0	3.2	2.6	2.2	1.8	1.5	1.2		
Rge	S	S	S	S	M	M	M	L	L	E	E	E		
H	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	2.8	3.3		
V	12.5	10.8	9.3	7.9	6.5	5.4	4.0	3.2	2.7	2.1	1.6	0.6		



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		2F3	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	18	13	14	10	12	8	11	7
10 - 18	14	10	11	7	9	6	8	6
19 - 27	12	8	9	6	8	5	7	5
28 - 36	10	7	8	6	7	5	6	4
37 - 45	10	7	7	5	6	4	6	4

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)	2215
Engines	4 Gihon GT		
Boilers	10 Kampon		

Radius (nm/kts)	
7000	14

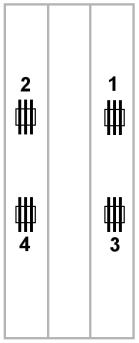
Search Radar
None
None

ASW MORTARS/ATW			DEPTH CHARGES			
0			Rack	0		
None			Ammo	0		

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	3			Catapult	2	
E8N-2 Dave				1	1	27
162 kts	100 kts		23850 ft			



TORPEDOES

TT	12	Ammo	24

61cm Type 90

Damage Class	B

Settings

7,650/46

10,900/42

16,400/35

MINES

0			

RAPID FIRE BATTERIES

RF1 — 16 — 25mm/60 Type 96

Max Rg	7,440	14.9"	9	7
Eff Rg	3,348	6.7"	13	10

RF 5	Port	8	6	4	3	1
	Stbd	8	6	4	3	1
AA M	Port	33	26	18	11	5
	Stbd	33	26	18	11	5

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					

Captain	

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

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TIER	DP
1/70	192
2/80	384
3/75	577
4/85	769
5/80	961
6/90	1134
7/85	1307
8/95	1480
9/90	1653
10	1826
10	1941

DP	1922
KTS	35

Engine Rm	4	35	31	20	7	0	0
Prop/Shaft	4	35	30	18	5	0	0
Boiler Rm	8	35	34	32	27	22	15
			8	3	0	0	0

Standard Turn	
60	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed Increase	00-10 kt	11-19 kt	20-24 kt	25-27 kt	28-30 kt	31+ kt
	11.0	9.0	5.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3D

ARMOR	0.95	Actual
1H DECK	2.3	2.4
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.9
4V CON	0.0	0.0
5V BELT MID	4.7	4.9
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

Kumano

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	EFECT ON FIRE	ROLL	EFECT 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

Kumano

CL JAPAN 1939 to 1943

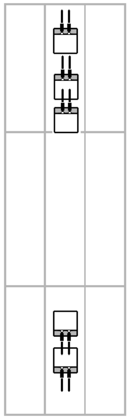
2159-1 SUZUYA Class

Displacement	12,400 ts	*Length*	650 ft	Kawasaki, Kobe	
Complement	850	*Beam*	66 ft	*Launched*	10/15/1936
Sunk 11/25/1944		*Draft*	19.4 ft	*Completed*	10/31/1937

SEEKRIEG 5

SHIP LOG SHEET

Version 12/25/2005



10 x 20cm/50 Type 3 No.2 — 25

Max ROF		Range		Shell Size/Weight	
4.0	sh/min	32,380 yds	64.8"	8.0"	277.4 lbs.

Fire Control		FC Radar	+ 0	AP	SAP
2	1F3	None		COM	HE

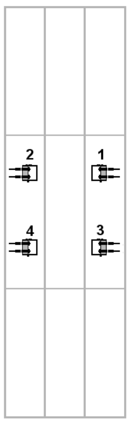
AA	3.7	Level	V	Ammunition	120 rpg	1200

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC — 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	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	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	2F3	None		COM	HE

AA	2.7	Level	V	Ammunition	360 rpg	2880

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	18	13	14	10	12	8	11	7
10 - 18	14	10	11	7	9	6	8	6
19 - 27	12	8	9	6	8	5	7	5
28 - 36	10	7	8	6	7	5	6	4
37 - 45	10	7	7	5	6	4	6	4

HE — PENETRATION TABLE

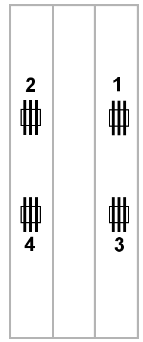
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	2215	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW	DEPTH CHARGES	
Engines	4 Gihon GT			7000	14	None	0	Rack	0
Boilers	10 Kampon					None	None	Ammo	0

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	3	Catapult	2
E8N-2 Dave			1 1 27
162 kts	100 kts	23850 ft	



TORPEDOES

TT	12	Ammo	24
61cm Type 93 M1-2			
Damage Class		A	
Settings			
22,000/48			
35,000/40			
43,700/36			

MINES

0			

RAPID FIRE BATTERIES

RF1	16	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	
RF 5	Port	8	6	4	3	1
	Stbd	8	6	4	3	1
AA M	Port	33	26	18	11	5
	Stbd	33	26	18	11	5

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

Captain	

After first reconstruction completed 10/1939.

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

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TIER	DP
1/70	202
2/80	405
3/75	607
4/85	809
5/80	1012
6/90	1194
7/85	1376
8/95	1558
9/90	1740
10	1922
10	2043

DP	2023
KTS	35

Engine Rm	4	35	31	20	7	0	0
Prop/Shaft	4	35	30	18	5	0	0
Boiler Rm	8	35	34	32	27	22	15
			8	3	0	0	0

Standard Turn	
60	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed	00-10 kt	11-19 kt	20-24 kt	25-27 kt	28-30 kt	31+ kt
Increase	11.0	9.0	5.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3D

ARMOR	0.95	Actual
1H DECK	2.3	2.4
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.9
4V CON	0.0	0.0
5V BELT MID	4.7	4.9
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

Kumano

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	EFECT ON FIRE	ROLL	EFECT 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

Kumano

CL JAPAN 1943 to 1944

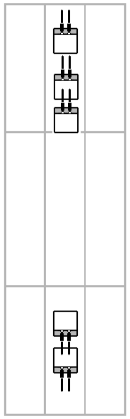
2159-2 SUZUYA Class

Displacement	12,400 ts	*Length*	650 ft	Kawasaki, Kobe	
Complement	850	*Beam*	66 ft	*Launched*	10/15/1936
Sunk 11/25/1944		*Draft*	19.4 ft	*Completed*	10/31/1937

SEEKRIEG 5

SHIP LOG SHEET

Version 12/25/2005



10 x 20cm/50 Type 3 No.2 — 25

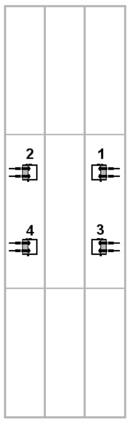
Max ROF		Range		Shell Size/Weight	
4.0	sh/min	32,380 yds	64.8"	8.0"	277.4 lbs.
Fire Control		FC Radar	+ 0	AP	SAP
2	1F3	None		COM	HE
AA	3.7	Level	V	Ammunition	120 rpg / 1200

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC — 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	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	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	2F3	None		COM	HE
AA	2.7	Level	V	Ammunition	360 rpg / 2880

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	18	13	14	10	12	8	11	7
10 - 18	14	10	11	7	9	6	8	6
19 - 27	12	8	9	6	8	5	7	5
28 - 36	10	7	8	6	7	5	6	4
37 - 45	10	7	7	5	6	4	6	4

HE — PENETRATION TABLE

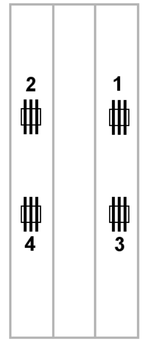
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	2215	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW	DEPTH CHARGES	
Engines	4 Gihon GT			7000	14	No.21 Type 2 M2	0	Rack	0
Boilers	10 Kampon					No.22 M4	None	Ammo	0

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	3	Catapult	2
E8N-2 Dave			1 1 27
162 kts	100 kts	23850 ft	



TORPEDOES

TT	12	Ammo	24
61cm Type 93 M1-2			
Damage Class		A	
Settings			
22,000/48			
35,000/40			
43,700/36			

MINES: 0

RAPID FIRE BATTERIES

RF1	20	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	

RF 5						
	Port	10	8	6	3	2
	Stbd	10	8	6	3	2

AA M						
	Port	41	33	22	13	6
	Stbd	41	33	22	13	6

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	

Captain

As modified April-May 1943.

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

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TIER	DP
1/70	202
2/80	405
3/75	607
4/85	809
5/80	1012
6/90	1194
7/85	1376
8/95	1558
9/90	1740
10	1922
10	2043

DP	2023
KTS	34

Engine Rm	4	34	30	20	6	0	0
Prop/Shaft	4	34	30	17	4	0	0
Boiler Rm	8	34	33	31	27	21	14
			8	3	0	0	0

Standard Turn	
60	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed Increase	00-10 kt	11-19 kt	20-24 kt	25-27 kt	28-30 kt	31+ kt
	11.0	9.0	5.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3D

ARMOR	0.95	Actual
1H DECK	2.3	2.4
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.9
4V CON	0.0	0.0
5V BELT MID	4.7	4.9
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

Kumano

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	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Kumano

CL JAPAN 1944 to 1944

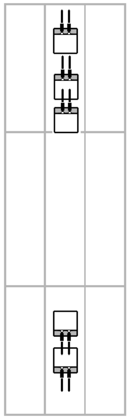
2159-3 SUZUYA Class

Displacement	12,400 ts	*Length*	650 ft	Kawasaki, Kobe	
Complement	850	*Beam*	66 ft	*Launched*	10/15/1936
Sunk 11/25/1944		*Draft*	19.4 ft	*Completed*	10/31/1937

SEEKRIEG 5

SHIP LOG SHEET

Version 12/25/2005



10 x 20cm/50 Type 3 No.2 — 25

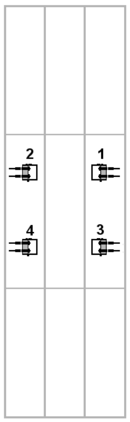
Max ROF		Range		Shell Size/Weight	
4.0	sh/min	32,380 yds	64.8"	8.0"	277.4 lbs.
Fire Control		FC Radar	+ 0	AP	SAP
2	1F3	None		COM	HE
AA 3.7	Level V	Ammunition	120 rpg	1200	

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC — 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	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	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	2F3	None		COM	HE
AA 2.7	Level V	Ammunition	360 rpg	2880	

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	18	13	14	10	12	8	11	7
10 - 18	14	10	11	7	9	6	8	6
19 - 27	12	8	9	6	8	5	7	5
28 - 36	10	7	8	6	7	5	6	4
37 - 45	10	7	7	5	6	4	6	4

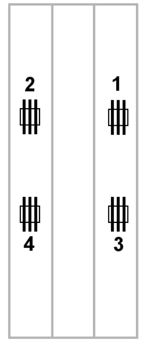
HE — PENETRATION TABLE

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						

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	3	Catapult	2
E8N-2 Dave		1 1	27
162 kts	100 kts	23850 ft	



TORPEDOES

TT	12	Ammo	24
61cm Type 93 M1-2			
Damage Class	A		

Settings

22,000/48

35,000/40

43,700/36

MINES

0

RAPID FIRE BATTERIES

RF1	56	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	
RF 5	Port	28	22	15	9	4
	Stbd	28	22	15	9	4
AA M	Port	114	91	63	38	17
	Stbd	114	91	63	38	17

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

Captain	

As modified June-July 1944.

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

Coal (ts)	0	Oil (ts)	2215	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW	DEPTH CHARGES	
Engines	4 Gihon GT			7000	14	No.13 Type 3 M1	0	Rack	0
Boilers	10 Kampon					No.22 M4	None	Ammo	0

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TIER	DP
1/70	202
2/80	405
3/75	607
4/85	809
5/80	1012
6/90	1194
7/85	1376
8/95	1558
9/90	1740
10	1922
10	2043

DP	2023
KTS	34

Engine Rm	4	34	30	20	6	0	0
Prop/Shaft	4	34	30	17	4	0	0
Boiler Rm	8	34	33	31	27	21	14
			8	3	0	0	0

Standard Turn	
60	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed Increase	00-10 kt	11-19 kt	20-24 kt	25-27 kt	28-30 kt	31+ kt
	11.0	9.0	5.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3D

ARMOR	0.95	Actual
1H DECK	2.3	2.4
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.9
4V CON	0.0	0.0
5V BELT MID	4.7	4.9
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

Kumano

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	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Suzuya

CL JAPAN 1937 to 1939

2719-0 SUZUYA Class

Displacement	11,200 ts	*Length*	650 ft	Yokosuka Navy Yard	
Complement	850	*Beam*	63 ft	*Launched*	10/15/1936
Sunk 11/25/1944		*Draft*	19.3 ft	*Completed*	10/31/1937

SEEKRIEG 5

SHIP LOG SHEET

Version 12/25/2005

15 x 15.5cm/60 Type 3 — 18

Max ROF	Range		Shell Size/Weight	
5.0 sh/min	29,965 yds	59.9"	6.1"	123.2 lbs.

Fire Control			FC Radar	+ 0
2		1F3	None	

AP	SAP
COM	HE

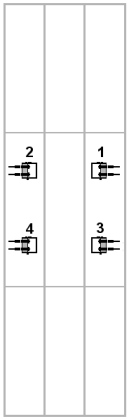
AA	2.7	Level	V	Ammunition	150 rpg	2250

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC 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	7.9	6.9	6.0	5.2	4.5	4.0	3.2	2.6	2.2	1.8	1.5	1.2		
Rge	S	S	S	S	M	M	M	L	L	E	E	E		
H	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	2.8	3.3		
V	12.5	10.8	9.3	7.9	6.5	5.4	4.0	3.2	2.7	2.1	1.6	0.6		



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		2F3	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	18	13	14	10	12	8	11	7
10 - 18	14	10	11	7	9	6	8	6
19 - 27	12	8	9	6	8	5	7	5
28 - 36	10	7	8	6	7	5	6	4
37 - 45	10	7	7	5	6	4	6	4

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)	2215
Engines	4 Gihon GT		
Boilers	10 Kampon		

Radius (nm/kts)	
7000	14

Search Radar
None
None

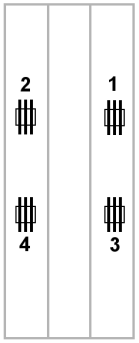
ASW MORTARS/ATW			DEPTH CHARGES			
0			Rack	0		
None			Ammo	0		

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	3			Catapult	2	

E8N-2 Dave	1	1	27
162 kts	100 kts	23850 ft	



TORPEDOES

TT	12	Ammo	24

61cm Type 90

Damage Class	B

Settings

7,650/46

10,900/42

16,400/35

MINES

0			

RAPID FIRE BATTERIES

RF1 — 16 — 25mm/60 Type 96

Max Rg	7,440	14.9"	9	7
Eff Rg	3,348	6.7"	13	10

RF						
5	Port	8	6	4	3	1
	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						
0	Port					
	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	#RNDS	HITS

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TIER	DP
1/70	192
2/80	384
3/75	577
4/85	769
5/80	961
6/90	1134
7/85	1307
8/95	1480
9/90	1653
10	1826
10	1941

DP	1922
KTS	35

Engine Rm	4	35	31	20	7	0	0
Prop/Shaft	4	35	30	18	5	0	0
Boiler Rm	8	35	34	32	27	22	15
			8	3	0	0	0

Standard Turn	
60	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed	00-10 kt	11-19 kt	20-24 kt	25-27 kt	28-30 kt	31+ kt
Increase	11.0	9.0	5.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3D

ARMOR	0.95	Actual
1H DECK	2.3	2.4
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.9
4V CON	0.0	0.0
5V BELT MID	4.7	4.9
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

Suzuya

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	EFECT ON FIRE	ROLL	EFECT 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

Suzuya

CL **JAPAN** 1939 to 1943

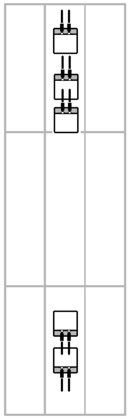
2719-1 SUZUYA Class

Displacement	12,400 ts	*Length*	650 ft	Yokosuka Navy Yard	
Complement	850	*Beam*	66 ft	*Launched*	10/15/1936
Sunk 11/25/1944		*Draft*	19.4 ft	*Completed*	10/31/1937

SEEKRIEG 5

SHIP LOG SHEET

Version 12/25/2005



10 x 20cm/50 Type 3 No.2 — 25

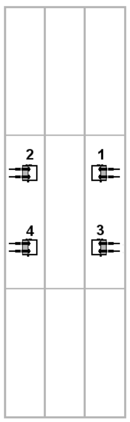
Max ROF		Range		Shell Size/Weight	
4.0	sh/min	32,380 yds	64.8"	8.0"	277.4 lbs.
Fire Control		FC Radar	+ 0	AP	SAP
2	1F3	None		COM	HE
AA 3.7	Level V	Ammunition	120 rpg	1200	

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC — 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	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	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	2F3	None		COM	HE
AA 2.7	Level V	Ammunition	360 rpg	2880	

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	18	13	14	10	12	8	11	7
10 - 18	14	10	11	7	9	6	8	6
19 - 27	12	8	9	6	8	5	7	5
28 - 36	10	7	8	6	7	5	6	4
37 - 45	10	7	7	5	6	4	6	4

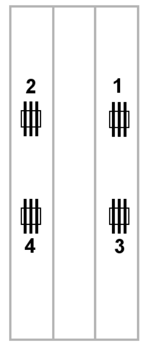
HE — PENETRATION TABLE

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						

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	3	Catapult	2
E8N-2 Dave		1 1	27
162 kts	100 kts	23850 ft	



TORPEDOES

TT	12	Ammo	24
61cm Type 93 M1-2			
Damage Class	A		
Settings			
22,000/48			
35,000/40			
43,700/36			

MINES

0

RAPID FIRE BATTERIES

RF1	16	25mm/60 Type 96			
Max Rg	7,440	14.9"	9	7	
Eff Rg	3,348	6.7"	13	10	
RF 5	Port	8	6	4	3	1
	Stbd	8	6	4	3	1
AA M	Port	33	26	18	11	5
	Stbd	33	26	18	11	5

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					

Coal (ts)	0	Oil (ts)	2215	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW	DEPTH CHARGES	
Engines	4 Gihon GT			7000	14	None	0	Rack	0
Boilers	10 Kampon					None	None	Ammo	0

Captain

After first reconstruction completed 12/1939.

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

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TIER	DP
1/70	202
2/80	405
3/75	607
4/85	809
5/80	1012
6/90	1194
7/85	1376
8/95	1558
9/90	1740
10	1922
10	2043

DP	2023
KTS	35

Engine Rm	4	35	31	20	7	0	0
Prop/Shaft	4	35	30	18	5	0	0
Boiler Rm	8	35	34	32	27	22	15
			8	3	0	0	0

Standard Turn	
60	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed	00-10 kt	11-19 kt	20-24 kt	25-27 kt	28-30 kt	31+ kt
Increase	11.0	9.0	5.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3D

ARMOR	0.95	Actual
1H DECK	2.3	2.4
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.9
4V CON	0.0	0.0
5V BELT MID	4.7	4.9
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

Suzuya

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	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Suzuya

CL **JAPAN** 1943 to 1944

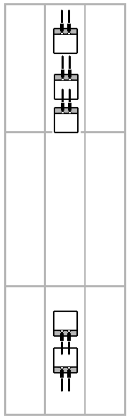
2719-2 SUZUYA Class

Displacement	12,400 ts	*Length*	650 ft	Yokosuka Navy Yard	
Complement	850	*Beam*	66 ft	*Launched*	10/15/1936
Sunk 11/25/1944		*Draft*	19.4 ft	*Completed*	10/31/1937

SEEKRIEG 5

SHIP LOG SHEET

Version 12/25/2005



10 x 20cm/50 Type 3 No.2 — 25

Max ROF		Range		Shell Size/Weight	
4.0	sh/min	32,380 yds	64.8"	8.0"	277.4 lbs.

Fire Control		FC Radar	+ 0	AP	SAP
2	1F3	None		COM	HE

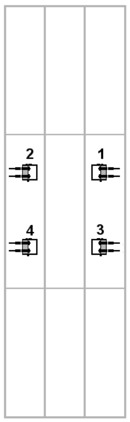
AA	3.7	Level	V	Ammunition	120 rpg	1200

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC — 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	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	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	2F3	None		COM	HE

AA	2.7	Level	V	Ammunition	360 rpg	2880

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	18	13	14	10	12	8	11	7
10 - 18	14	10	11	7	9	6	8	6
19 - 27	12	8	9	6	8	5	7	5
28 - 36	10	7	8	6	7	5	6	4
37 - 45	10	7	7	5	6	4	6	4

HE — PENETRATION TABLE

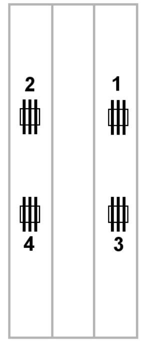
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	2215	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW	DEPTH CHARGES	
Engines	4 Gihon GT			7000	14	No.21 Type 2 M2	0	Rack	0
Boilers	10 Kampon					No.22 M4	None	Ammo	0

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	3		Catapult	2
E8N-2 Dave		1	1	27
162 kts	100 kts	23850 ft		



TORPEDOES

TT	12	Ammo	24
61cm Type 93 M1-2			
Damage Class		A	

Settings

- 22,000/48
- 35,000/40
- 43,700/36

MINES

0

RAPID FIRE BATTERIES

RF1	20	25mm/60 Type 96			
Max Rg	7,440	14.9"		9	7
Eff Rg	3,348	6.7"		13	10

RF 5						
	Port	10	8	6	3	2
	Stbd	10	8	6	3	2

AA M						
	Port	41	33	22	13	6
	Stbd	41	33	22	13	6

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					

Captain	

As modified April-May 1943.

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

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TIER	DP
1/70	202
2/80	405
3/75	607
4/85	809
5/80	1012
6/90	1194
7/85	1376
8/95	1558
9/90	1740
10	1922
10	2043

DP	2023
KTS	34

Engine Rm	4	34	30	20	6	0	0
Prop/Shaft	4	34	30	17	4	0	0
Boiler Rm	8	34	33	31	27	21	14
			8	3	0	0	0

Standard Turn	
60	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed	00-10 kt	11-19 kt	20-24 kt	25-27 kt	28-30 kt	31+ kt
Increase	11.0	9.0	5.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3D

ARMOR	0.95	Actual
1H DECK	2.3	2.4
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.9
4V CON	0.0	0.0
5V BELT MID	4.7	4.9
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

Suzuya

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	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity

Suzuya

CL JAPAN 1944 to 1944

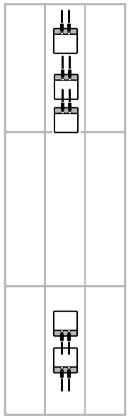
2719-3 SUZUYA Class

Displacement	12,400 ts	*Length*	650 ft	Yokosuka Navy Yard	
Complement	850	*Beam*	66 ft	*Launched*	10/15/1936
Sunk 11/25/1944		*Draft*	19.4 ft	*Completed*	10/31/1937

SEEKRIEG 5

SHIP LOG SHEET

Version 12/25/2005



10 x 20cm/50 Type 3 No.2 — 25

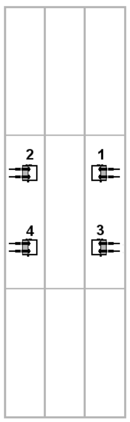
Max ROF		Range		Shell Size/Weight	
4.0	sh/min	32,380 yds	64.8"	8.0"	277.4 lbs.
Fire Control		FC Radar	+ 0	AP	SAP
2	1F3	None		COM	HE
AA 3.7	Level V	Ammunition	120 rpg	1200	

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	23	16	18	13	15	11	14	10
10 - 18	18	12	14	10	12	8	10	7
19 - 27	15	11	12	8	10	7	9	6
28 - 36	13	9	10	7	9	6	8	5
37 - 45	12	9	10	7	8	6	7	5

SAPBC — 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	7.9	6.8	5.9	5.1	4.5	3.9	3.3	2.7	2.3	2.0	1.7	1.4	1.2	
Rge	S	S	S	S	M	M	M	L	L	L	E	E	E	
H	0.3	0.5	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.5	3.4	4.4	5.3	
V	15.0	13.3	11.7	10.3	9.0	7.8	6.4	5.4	4.7	4.0	3.3	2.7	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	2F3	None		COM	HE
AA 2.7	Level V	Ammunition	360 rpg	2880	

FIRE CONTROL TABLE

T Kts	Short		Medium		Long		Extreme	
0 - 9	18	13	14	10	12	8	11	7
10 - 18	14	10	11	7	9	6	8	6
19 - 27	12	8	9	6	8	5	7	5
28 - 36	10	7	8	6	7	5	6	4
37 - 45	10	7	7	5	6	4	6	4

HE — PENETRATION TABLE

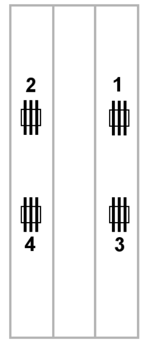
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.6	6.2	5.0	4.0	3.3	2.7	2.0	1.6						
Rge	S	S	M	M	L	L	E	E						
H	0.1	0.2	0.3	0.4	0.5	0.8	1.4	1.8						
V	3.9	2.8	2.1	1.7	1.3	1.2	1.1	1.3						

Coal (ts)	0	Oil (ts)	2215	Radius (nm/kts)		Search Radar	ASW MORTARS/ATW	DEPTH CHARGES	
Engines	4 Gihon GT			7000	14	No.13 Type 3 M1	0	Rack	0
Boilers	10 Kampon					No.22 M4	None	Ammo	0

Crew	Sea	BR	Targ Sz	Ops
			2	

AIRCRAFT

Aircraft	3	Catapult	2	
E8N-2 Dave		1	1	27
162 kts	100 kts	23850 ft		



TORPEDOES

TT	12	Ammo	24
61cm Type 93 M1-2			
Damage Class	A		
Settings			
22,000/48			
35,000/40			
43,700/36			

MINES

0	

RAPID FIRE BATTERIES

RF1	50	25mm/60 Type 96				
Max Rg	7,440	14.9"	9	7		
Eff Rg	3,348	6.7"	13	10		
RF 5	Port	25	20	14	8	4
	Stbd	25	20	14	8	4
AA M	Port	102	81	56	34	15
	Stbd	102	81	56	34	15
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					

Captain

As modified June-July 1944.

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

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TIER	DP
1/70	202
2/80	405
3/75	607
4/85	809
5/80	1012
6/90	1194
7/85	1376
8/95	1558
9/90	1740
10	1922
10	2043

DP	2023
KTS	34

Engine Rm	4	34	30	20	6	0	0
Prop/Shaft	4	34	30	17	4	0	0
Boiler Rm	8	34	33	31	27	21	14
			8	3	0	0	0

Standard Turn	
60	
Emergency Turn	
90	

Target Sz	
2	
Searchlights	
Port	Stbd

Speed	00-10 kt	11-19 kt	20-24 kt	25-27 kt	28-30 kt	31+ kt
Increase	11.0	9.0	5.0	3.0	2.0	1.0

Crew

Bridge Command Rating	Flag Command Rating	Damage Control (DCR)
		5

Fuel Code	CL3D

ARMOR	0.95	Actual
1H DECK	2.3	2.4
2H TURRET	1.0	1.0
3H SUPERSTR	0.8	0.9
4V CON	0.0	0.0
5V BELT MID	4.7	4.9
6V BELT END	0.0	0.0
7V BARBETTE	1.0	1.0
8V TURRET	1.0	1.0
9V SUPERSTR	1.0	1.1

Suzuya

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	
ROLL	EFECT ON FIRE
01-03	-20 from severity
04-12	-10 from severity
13-50	No change
51-85	+10 to severity
86-95	+30 to severity
96-00	+40 to severity

DAMAGE CONTROL	
ROLL	EFECT ON FIRE
01-05	Fire extinguished
06-15	-30 from severity
16-45	-20 from severity
46-75	-10 from severity
76-90	No change
91-00	+10 to severity