



South  
Metropolitan

Maritime Image - Vessel Logbook

**VESSEL**

**CERTIFICATES**

**MARITIME IMAGE**

ALL : S/W INTAKES

OFF

Running FWD Fuel Tanks @ 500L per Side

\* REMOVED ALL PFD'S \*

Signature:



MARITIME IMAGE - VESSEL LOGBOOK

DATE: 05/03/26	START: 1100	FINISH: 1200
MASTER: Tom Scott	CREW:	LECTURER:
SUBJECT:	PASSENGERS AT START:	PASSENGERS AT FINISH:



**PRE-DEPARTURE SAFETY EQUIPMENT CHECK**

PRESTART CHECKLIST	
STUDENT MANIFEST	
SHUTDOWN CHECKLIST	

**RUNNING SHEET**


Time	Details (incidents, radio coms, emergencies)
1100	New 20 man life raft and hydrostatic release added

**MAIN ENGINE CHECKS**

PORT	STARBOARD
ENGINE RPM	ENGINE RPM
ENGINE WATER TEMP	ENGINE WATER TEMP
OIL PRESSURE	OIL PRESSURE
GEARBOX OIL PRESSURE	GEARBOX OIL PRESSURE
TURBO PRESSURE	TURBO PRESSURE

**AUXILIARY CHECKS**

AUXILIARY CHECKS		BATTERIES	VOLTS
ENGINE RPM		BANK 1	
ENGINE WATER TEMP		BANK 2	
ENGINE OIL PRESSURE		GENSET	
FUEL CAPACITY (AFT)	2500L	FUEL CAPACITY (FWD)	1600 L
FUEL LEVEL (PORT AFT)		FUEL LEVEL (PORT FWD)	
FUEL LEVEL (STB AFT)		FUEL LEVEL (STBD FWD)	

ENGINE HOURS	START	FINISH	TOTAL	COMMENTS:
PORT				
STARBOARD				
AUXILIARY				
MASTER'S SIGNATURE: 				

MARITIME IMAGE - VESSEL LOGBOOK



South Metropolitan

DATE: 03/03/26 START: 0910 FINISH: 1430  
 MASTER: Tom CREW: / LECTURER: /  
 SUBJECT: / PASSENGERS AT START: / PASSENGERS AT FINISH: /

PRE-DEPARTURE SAFETY EQUIPMENT CHECK				RUNNING SHEET	
PRESTART CHECKLIST	/			Time	Details (incidents, radio coms, emergencies)
STUDENT MANIFEST	/			0910	Start monthlys
SHUTDOWN CHECKLIST	/			1330	start ups
MAIN ENGINE CHECKS				1430	Vessel shut down
PORT		STARBOARD		20L of oily waste disposed of on shore	
ENGINE RPM	/	ENGINE RPM	/		
ENGINE WATER TEMP	/	ENGINE WATER TEMP	/		
OIL PRESSURE	/	OIL PRESSURE	/		
GEARBOX OIL PRESSURE	/	GEARBOX OIL PRESSURE	/		
TURBO PRESSURE	/	TURBO PRESSURE	/		
AUXILIARY CHECKS		BATTERIES		VOLTS	
ENGINE RPM	1500	BANK 1			
ENGINE WATER TEMP	90	BANK 2	/	28V	
ENGINE OIL PRESSURE	65	GENSET		28V	
FUEL CAPACITY (AFT)	2500L	FUEL CAPACITY (FWD)		1600 L	
FUEL LEVEL (PORT AFT)		FUEL LEVEL (PORT FWD)			
FUEL LEVEL (STB AFT)		FUEL LEVEL (STBD FWD)			
ENGINE HOURS	START	FINISH	TOTAL	COMMENTS: Fire Flaps: Stb Fwd Jumps out of closed Pt Fwd can't be locked open	
PORT	1357	1357	72	Refuel kit needs 1 disposal bag	
STARBOARD	1352	1352	68	Possible leak off Stb exhaust - salt build up on top of hydraulic cooler	
AUXILIARY	9311	9311	158	Fuel leak off Stb Fwd sight glass Suck blow key	
MASTER'S SIGNATURE: <i>[Signature]</i>					

MARITIME IMAGE - VESSEL LOGBOOK

DATE: 21/02/26 START: 0830 FINISH: 1200  
 MASTER: Alex/Ken CREW: Sam LECTURER: Sam  
 SUBJECT: High Speed Class PASSENGERS AT START: 9 PASSENGERS AT FINISH: 9



PRE-DEPARTURE SAFETY EQUIPMENT CHECK

PRESTART CHECKLIST	✓
STUDENT MANIFEST	
SHUTDOWN CHECKLIST	✓

RUNNING SHEET

Time	Details (incidents, radio coms, emergencies)
0900	Induction, Pre-start & Shutdown. SREP E.T. General look of the vessel.
1130	Students departed for TAFE.
1200	All shut down and packed up.

MAIN ENGINE CHECKS

PORT		STARBOARD	
ENGINE RPM	✓	ENGINE RPM	✓
ENGINE WATER TEMP	✓	ENGINE WATER TEMP	✓
OIL PRESSURE	✓	OIL PRESSURE	✓
GEARBOX OIL PRESSURE	✓	GEARBOX OIL PRESSURE	✓
TURBO PRESSURE	✓	TURBO PRESSURE	✓

AUXILIARY CHECKS		BATTERIES		VOLTS
ENGINE RPM	1500	BANK 1	✓	28.1
ENGINE WATER TEMP	90	BANK 2		
ENGINE OIL PRESSURE	65	GENSET	✓	26V
FUEL CAPACITY (AFT)	2500L	FUEL CAPACITY (FWD)		1600 L
FUEL LEVEL (PORT AFT)		FUEL LEVEL (PORT FWD)		
FUEL LEVEL (STB AFT)		FUEL LEVEL (STBD FWD)		

ENGINE HOURS	START	FINISH	TOTAL	COMMENTS:
PORT	0857	1035	72	
STARBOARD	0858	1035	68	
AUXILIARY	931	931	108	

MASTER'S SIGNATURE: *A. [Signature]*

MARITIME IMAGE - VESSEL LOGBOOK



DATE: 24/02/2026 START: 0830 FINISH: 1445  
 MASTER: Alex/Tom CREW: Ben LECTURER: Ben  
 SUBJECT: GPA PASSENGERS AT START: 9 PASSENGERS AT FINISH:

PRE-DEPARTURE SAFETY EQUIPMENT CHECK

PRESTART CHECKLIST ✓  
 STUDENT MANIFEST ✓  
 SHUTDOWN CHECKLIST ✓

RUNNING SHEET

Time	Details (incidents, radio coms, emergencies)
0845	Induction: Inducted all students.
1000	Pre Start & Shutdown Procedures. All OK
1100	Scheduled Maintenance Checks.
1300	Inducted Tom - Pre-Start & Shutdown Procedures.

MAIN ENGINE CHECKS

PORT		STARBOARD	
ENGINE RPM	✓	ENGINE RPM	✓
ENGINE WATER TEMP	✓	ENGINE WATER TEMP	✓
OIL PRESSURE	✓	OIL PRESSURE	✓
GEARBOX OIL PRESSURE	✓	GEARBOX OIL PRESSURE	✓
TURBO PRESSURE	✓	TURBO PRESSURE	✓

AUXILIARY CHECKS	BATTERIES	VOLTS	
ENGINE RPM	1500	BANK 1	
ENGINE WATER TEMP	90	BANK 2	✓ 28
ENGINE OIL PRESSURE	65	GENSET	✓ 26
FUEL CAPACITY (AFT)	2500L	FUEL CAPACITY (FWD)	1600 L
FUEL LEVEL (PORT AFT)	360	FUEL LEVEL (PORT FWD)	500
FUEL LEVEL (STB AFT)	360	FUEL LEVEL (STBD FWD)	500

ENGINE HOURS	START	FINISH	TOTAL
PORT	10305	10357	72
STARBOARD	0351	10352	63
AUXILIARY	9309	9311	158

COMMENTS: Inducted Tom.  
 Issue with Starboard key panel relating to dash. Reversed dash panel, repositioned and rehighlighted key panel.

MASTER'S SIGNATURE: A. Notth

MARITIME IMAGE - VESSEL LOGBOOK



DATE: 03/11/25      START: 0900      FINISH:  
 MASTER: Hek      CREW: Ben      LECTURER: Ben  
 SUBJECT: MEDI      PASSENGERS AT START: 7      PASSENGERS AT FINISH: 7

PRE-DEPARTURE SAFETY EQUIPMENT CHECK				RUNNING SHEET	
PRESTART CHECKLIST	✓			Time	Details (incidents, radio coms, emergencies)
STUDENT MANIFEST	✓			0900	Inductions: Inducted all students.
SHUTDOWN CHECKLIST	✓			0940	Monthly Checks: Deck & Engine Room.
MAIN ENGINE CHECKS					
PORT		STARBOARD			
ENGINE RPM		ENGINE RPM		1120	Bilge Diagram Exercise, SOPEP Kit Audit.
ENGINE WATER TEMP		ENGINE WATER TEMP			
OIL PRESSURE		OIL PRESSURE		1220	Start-Up & Shut down procedures.
GEARBOX OIL PRESSURE		GEARBOX OIL PRESSURE			
TURBO PRESSURE		TURBO PRESSURE			
AUXILIARY CHECKS		BATTERIES		VOLTS	
ENGINE RPM		BANK 1	✓		
ENGINE WATER TEMP		BANK 2			
ENGINE OIL PRESSURE		GENSET			
FUEL CAPACITY (AFT)	2500L	FUEL CAPACITY (FWD)		1600 L	
FUEL LEVEL (PORT AFT)	360	FUEL LEVEL (PORT FWD)		500	
FUEL LEVEL (STB AFT)	360	FUEL LEVEL (STBD FWD)		500	
ENGINE HOURS	START	FINISH	TOTAL	COMMENTS:	
PORT	10336	10336	71	Issue with Stb key panel rotating in dash. Replaced dash and repositioned and tightened key panel. 24/02/2025	
STARBOARD	10351	10351	67		
AUXILIARY	9309	9309	67156		
MASTER'S SIGNATURE:				A. Nott	

MARITIME IMAGE - VESSEL LOGBOOK



DATE: 13/11/25 START: 1600 FINISH: 2100  
 MASTER: Scott/Alex CREW: JOSH LECTURER: JOSH  
 SUBJECT: MR2400 NC PASSENGERS AT START: 11 PASSENGERS AT FINISH: 11

PRE-DEPARTURE SAFETY EQUIPMENT CHECK	
PRESTART CHECKLIST	✓
STUDENT MANIFEST	-
SHUTDOWN CHECKLIST	✓

RUNNING SHEET	
Time	Details (incidents, radio coms, emergencies)
1610	A/C STARTS - PASSAGE PLAN

MAIN ENGINE CHECKS			
PORT		STARBOARD	
ENGINE RPM	1200	ENGINE RPM	1200
ENGINE WATER TEMP	84°C	ENGINE WATER TEMP	90°C
OIL PRESSURE	50psi	OIL PRESSURE	50psi
GEARBOX OIL PRESSURE	400psi	GEARBOX OIL PRESSURE	300psi
TURBO PRESSURE	0psi	TURBO PRESSURE	0psi

1700	DEPART FROM FOR S/P CANAL
1745	P/UP MOORING @ GARDEN ISLAND.
1900	DEPART MOORING → MEDINA CANAL
2000	S/P CANAL → NORTH

AUXILIARY CHECKS		BATTERIES		VOLTS
ENGINE RPM	1500	BANK 1		
ENGINE WATER TEMP	70	BANK 2	✓	28V
ENGINE OIL PRESSURE	65	GENSET		26V
FUEL CAPACITY (AFT)	2500L	FUEL CAPACITY (FWD)		1600 L
FUEL LEVEL (PORT AFT)	360	FUEL LEVEL (PORT FWD)		460
FUEL LEVEL (STB AFT)	360	FUEL LEVEL (STBD FWD)		500

2050	Alongside FISH → 020
	ALL EXT - SHUTDOWN

ENGINE HOURS	START	FINISH	TOTAL	COMMENTS:
PORT	10332	10336	71	NIGHT NAV w/11 STWARDS.
STARBOARD	10347	10351	67	
AUXILIARY	9304	9309	156	

MASTER'S SIGNATURE:

### MARITIME IMAGE - VESSEL LOGBOOK

DATE: 13/11/25	START: 0830	FINISH: 1500
MASTER: Alex	CREW: Andrew/Darren	LECTURER: Andrew/Darren
SUBJECT: MYP	PASSENGERS AT START: 5	PASSENGERS AT FINISH: 5



#### PRE-DEPARTURE SAFETY EQUIPMENT CHECK

PRESTART CHECKLIST	✓
STUDENT MANIFEST	-
SHUTDOWN CHECKLIST	✓

#### RUNNING SHEET

Time	Details (Incidents, radio coms, emergencies)
0830	Pre-start: All OK.
<b>MAIN ENGINE CHECKS</b>	
<b>PORT</b>	<b>STARBOARD</b>
ENGINE RPM: 1700	ENGINE RPM: 1700
ENGINE WATER TEMP: 85°C	ENGINE WATER TEMP: 92°C
OIL PRESSURE: 50 psi	OIL PRESSURE: 10 psi
GEARBOX OIL PRESSURE: 400 psi	GEARBOX OIL PRESSURE: 300 psi
TURBO PRESSURE: 13 psi	TURBO PRESSURE: 8 psi
<b>AUXILIARY CHECKS</b>	<b>BATTERIES</b>
ENGINE RPM: 1500	BANK 1: ✓ 27V
ENGINE WATER TEMP: 90	BANK 2: 27V
ENGINE OIL PRESSURE: 65	GENSET: 26V
FUEL CAPACITY (AFT): 2500L	FUEL CAPACITY (FWD): 1600L
FUEL LEVEL (PORT AFT): 440	FUEL LEVEL (PORT FWD): 500
FUEL LEVEL (STB AFT): 440	FUEL LEVEL (STBD FWD): 500

ENGINE HOURS	START	FINISH	TOTAL	COMMENTS:
PORT	1032	1032	67	
STARBOARD	1032	1037	65	
AUXILIARY	9298	9304	151	

MASTER'S SIGNATURE: *A. North*

0900 Depart Capo. Hugel Passage to South Side of Porto to port ports. Baited 3 vessels.

1030 South side of Porto → North side of Porto. Fishing.

1230 Anchored @ Penakent Bay. ↓

1345 Departed Penakent Bay. → FBH.

1435 Back @ Capo.





Compass Adjuster's Calibration of Boreas

Name of Vessel: MARITIME IMAGE  
 Vessel Identification: 441002 Length: 12.4m  
 Owner/Operator: SOUTH MEDICAL TAFE  
 Address: FRAGMENTARY N.A.

Ship's Head By Compass		Deviation	Ship's Head By Gyrocompass		Deviation
000°	000°	0	000°	000°	0
	010°			010°	
	020°			020°	
	030°			030°	
	040°			040°	
	050°			050°	
	060°			060°	
	070°			070°	
	080°			080°	
	090°			090°	
090°	090°	2W	090°	090°	0
	100°			100°	
	110°			110°	
	120°			120°	
	130°			130°	
	140°			140°	
	150°			150°	
	160°			160°	
	170°			170°	
	180°			180°	
180°	180°	0	180°	180°	0
	170°			170°	
	160°			160°	
	150°			150°	
	140°			140°	
	130°			130°	
	120°			120°	
	110°			110°	
	100°			100°	
	090°			090°	

Item	Description of Correction	No. & Size of Correction	Description (Where Centre of Correction is Centre of Compass Needle)
Com & All Magnets	Yes		Nil
Barbaric			
Magnetic Wippen			
Fluxes	1 x 10 x 2 cm	100/100	
Size of Compass	Yes		Nil
Quadrant Correction	Yes		
Vertical Mag. for Error			Distance from Upper Edge of Magnet to Centre of Compass Needle
Lat. Error			Nil

Position of Compass: MUNSEY ISLAND  
 Heave: KILBEY & SHIMNEY  
 The deviations were obtained by means of: DISTANT BEARING / GPS  
 Type of Vertical Force Instrument Used: ROAD KILBEY

A copy has been furnished to the Owner / Master  
 I hereby declare that the compass described above has been correctly adjusted, when necessary, adjusted, and is now in good order  
 LICENCED COMPASS ADJUSTER - PAUL DOLAN  
 DATE: 12-12-2023 SIGNATURE: [Signature]



Compass Adjuster's Declaration Of Survey

Name Of Vessel: MARINE IMAGE  
 Vessel Identification: 441007 Length: 18.4  
 Name / Operator: SOUTH METRO TAFE  
 Address: PERMANENT W.A.

Ship's Head By Compass	Deviation	Ship's Head By Compass	Deviation
(NORTH)	000°	000°	2°E
	010°		
	020°		
	030°		
	040°		
	050°		
	060°		
	070°		
	080°		
(EAST)	090°	090°	2°W
	100°		
	110°		
	120°		
	130°		
	140°		
	150°		
	160°		
	170°		

Part	Description Of Component	No. & Size of Components	Description (attach Centre or Council or Centre of Component Reading)
	Iron & Brass Magnet - Total	1 x 45 x 6mm	36.5mm RED FWD
	Subtotal	1 x 20 x 3mm	100mm RED AFT
	All-weather Magnet		
	Flotation	Length	
	Bar	Dia	
	of Compass		
	Compass Component		
	Vertical Mag. - Total		Distance from Upper Edge of Magnet to Centre of Compass Reading
	Up / Down		NO PROVISION

*INTEGRAL*

Position of Compass: WORLD COMPASS CAB  
 Remarks: BLASTING OFFSHORE 135  
 The Deviations were obtained by means of: DISTANT BEARINGS / GPS  
 Type of Vertical Force Instrument Used: \_\_\_\_\_

A copy has been furnished to the Owner / Master

I hereby declare that the compass described above has, to my best knowledge and, where necessary, assisted, gone through a good order  
 LICENCED COMPASS ADJUSTER: PAUL O'LEARY  
 DATE: 12-12-2023 SIGNATURE: [Signature]

## **REPORTING ILLEGAL GARBAGE DISCHARGE**

**You can help keep our seas clean by reporting any violations of the garbage discharge regulations**

Information is needed to assist in investigating and prosecuting offenders. Useful information includes:

- the **name** of the vessel responsible;
- the **time, date and location** of the incident (distance from land, GPS coordinates);
- details of **how much and what type of garbage** was discharged; and
- other **witnesses** or vessels in the vicinity.

**If possible take photographs or video images of the pollution, the vessel or the person involved.**

**Please REPORT illegal garbage discharges to:**

Joint Rescue Coordination Centre (Australia)  
Phone: 1800 641 792 (freecall) or  
(02) 6230 6811 at any time

**Please keep this information card on board your vessel.**

**MARPOL requires that all vessels of 12m or more in length overall display placards that notify the crew and passengers of the garbage discharge regulations.**

# RADIO DISTRESS CALLING

**USED ONLY**

**if in grave or imminent danger**

- **MAYDAY MAYDAY MAYDAY**
- **THIS IS** (name of vessel & call sign)
- **MAYDAY** (name of vessel & call sign)
- (Vessel's position in degrees & minutes of latitude and longitude or bearings & distance relative to a well known geographical feature.)
- (Nature of distress & the kind of assistance required.)
- (Any other information which may assist rescuers - number of persons on board, description of vessel, liferaft, EPIRB)

Allow a short period for shore station to reply.

If no answer, activate your EPIRB & repeat the distress call working through all the distress frequencies.

If contact is made with shore station, inform station that you have activated your EPIRB.

**DO NOT TURN EPIRB OFF** until told to do so by rescue authority.





## Markers, Buoys and Beacons

### Lateral Marks

Indicate the port and starboard sides of a navigable channel.



#### Port Marks

Light: Red, one flash.



#### Starboard Marks

Light: Green, one flash.



Stay on the starboard side of the channel.

### Safe Water Marks

Indicate that a lateral mark with all water all around.



LIGHT: White light, occulting red/white. 1 long flash every 10 seconds or Morse Code "W" — —

### Isolated Danger Marks

Indicate a small area of danger.



LIGHT: White light, group of 2 flashes.

### Special Marks

Indicate a special area such as aquaculture or mooring. See the IALA separate scheme.



LIGHT: Yellow light, one flash.

### Cardinal Marks

Indicate the correct direction and side to pass a danger or feature, such as a head in a channel or end of a shoal.

#### North Cardinal

LIGHT: White light, continuous flashing.

Pass to North



#### East Cardinal

LIGHT: White light, 3 flashes.

Pass to East

#### South Cardinal

LIGHT: White light, 6 flashes + 1 long flash.

Pass to South

#### West Cardinal

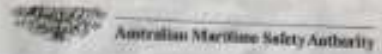
LIGHT: White light, 9 flashes.

Pass to West



I hereby declare that the contents of this document above has been fully examined and, where necessary, amended, and is true to the best of my knowledge and belief.  
 SIGNED: CAPTAIN ADRIAN T. PAUL, O.C. 11  
 DATE: 12/12/2023  
 SIGNATURE: [Signature]

CR 1000000 20/4/23



# CERTIFICATE OF SURVEY

Marine Safety (Vessels) Compliance (Vessels National Law Act 2012), Schedule 1  
 Marine Order 627 (2012) and Order 628 - National Law 2012

Name of vessel MARITIME IMAGE	Type of vessel	Unique vessel identifier 441007	Certificate number COS-83719-002
Measured length (m) 10.40	Measured breadth (m) 5.30	Measured depth (m) 2.10	Gross tonnage (if applicable) 43.0
Engine make/type VOLVO	Engine power (kW) 454	Hull material Aluminium	Survey frequency REGH

### Class(es) and number of persons this vessel is certified to carry

Note: the total number of passengers permitted on board is the sum of the unberthed and berthed values shown below

Class	Crew	Unberthed passengers	Berthed passengers	Special personnel
1B	3	17	0	0
1D	0	50	0	0

### Conditions

- The Owner must ensure that the Master has access to a copy of this document on board the vessel.
- NOTE: THIS VESSEL HAS EQUIVALENT SOLUTIONS/EXEMPTIONS FROM EXTERNAL OPENING OF ESCAPE HATCH, FORWARD HATCH COAMING OF 302mm, HIND LEAD LINE.

This certificate is in force until 24 January 2028, unless suspended or revoked.

DELEGATE OF THE NATIONAL REGULATOR  
 PO Box 2154, Canberra ACT 2601  
 p 1800 627 494  
 w www.amsa.gov.au

Issued: 18 April 2023

FIRE FIGHTING EQUIPMENT			
SYM	DESCRIPTION	QTY	LOCATION
	4.5kg DRY CHEMICAL POWDER FIRE EXTINGUISHER	1	MAIN DECK - MIDDLESBURY

**For information**

A certificate of survey is subject to the statutory conditions imposed under *Marine Order 503 (Certificates of survey - national law) 2018*, as in force from time to time.

**5 year survey schedule**

In accordance with the statutory conditions mentioned in *Marine Order 503 (Certificates of survey - national law) 2018*, the vessel is to be surveyed in accordance with the following schedule:

Year	Date	Type of Survey
1	24/01/2024	Periodic (in water) Survey <i>Colin... 23/1/2024</i>
2	24/01/2025	Periodic (in water) Survey <i>Wade Nigel 06/02/2025</i>
3	24/01/2026	Out of Water Survey <i>Adapt Marine 3/10/2025</i>
4	N/A	
5	24/01/2028	Shaft Survey, Periodic Lightship Check, Periodic Survey (in water), Out of Water Survey

**Applicable standards**

- Construction Standards: USL Code

... information card on board your vessel.  
 L requires that all vessels of 12m or more in length overall display placards  
 notify the crew and passengers of the garbage discharge regulations.

# CERTIFICATE OF OPERATION

*Marine Safety (Domestic Commercial Vessel) National Law 2012, Schedule 1  
Marine Order 504 (Certificates of operation - national law) 2018*

Name of Certificate Holder: SOUTH METROPOLITAN TAFE  
ABN/ACN: 15965263323

Certificate Number: COO-1965-005

Classes of Operation	Types of Operation
1B	Training
1D	Training
2C	Training
2D	Training
2E	Training

Conditions that apply to the entire operation and all vessels:

- The Owner must ensure that the Master has access to a copy of this document on board the vessel.

This certificate is in force until 10 May 2028, unless suspended or revoked.

**DELEGATE OF THE NATIONAL REGULATOR**

PO Box 2161, Canberra ACT 2601

p 1800 627 434

w [www.amsa.gov.au](http://www.amsa.gov.au)

Attached: Schedule of vessels and conditions

**For information**

*Note:* A certificate of operation is subject to the statutory conditions imposed under *Marine Order 504 (Certificates of operation - national law) 2018*, as in force from time to time.

## FIRE FIGHTING EQUIPMENT

SYM	DESCRIPTION	QTY	LOCATION
	4.5kg DRY CHEMICAL POWDER FIRE EXTINGUISHER (200)	1	MAIN DECK - WHEELHOUSE



Australian Maritime Safety Authority

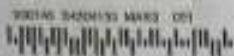
Vessel	UVI	Class	Conditions that apply to a specific vessel (if applicable)
BROCKMAN	441011	2C	1. THE OWNER AND MASTER MUST ENSURE THAT THE VESSEL OPERATIONS ARE LIMITED TO WITHIN 30 NAUTICAL MILES EITHER SIDE OF A SAFE ANCHORAGE NOT MORE THAN 30 NAUTICAL MILES OFFSHORE.
BY356	448013	2E	1. THE OWNER AND MASTER MUST ENSURE THAT THE VESSEL DOES NOT CARRY ANY PASSENGERS.  2. THE OWNER AND MASTER MUST ENSURE THAT THE VESSEL OPERATIONS ARE LIMITED TO GAZETTED SHELTERED WATERS WITHIN FIVE (5) NAUTICAL MILES FROM THE MAINLAND COAST.
LA KELA	438847	2C	
MARITIME IMAGE	441007	1B, 1D	

GPO Box 2181  
Canberra ACT 2601



Australian Government  
Australian Maritime Safety Authority

15 February 2024



SOUTH METROPOLITAN TAFE  
1 FLEET STREET  
FREMANTLE WA 6160,  
Australia

SOUTH METROPOLITAN TAFE

27 FEB 2024

RECEIVED

Record Number:

SMT1024/0031369

Dear Sir / Madam,

**NOTIFICATION - PERIODIC SURVEY(S) COMPLETED**

I am writing to confirm that AMSA has received the final survey report(s) and recommendation(s) from your attending surveyor(s) for your year 1 survey(s) that were due on 24/01/2024. The report indicates that the vessel MARITIME IMAGE with the unique vessel identifier 441007 continues to comply with the applicable construction, subdivision, stability and equipment standards. The surveyor(s) has also confirmed that any deficiencies that may have been found during the survey have been rectified.

Please retain this letter with your vessel records as evidence that your vessel has completed this periodic survey(s).

Yours faithfully,

**DELEGATE OF THE NATIONAL REGULATOR**  
GPO Box 2181, Canberra ACT 2601  
p 1800 827 484  
e [AMSAConnect@amsa.gov.au](mailto:AMSAConnect@amsa.gov.au)  
w [www.amsa.gov.au](http://www.amsa.gov.au)





**TerryWhite Chemmart Palmyra**  
 Pharmaceutical, Manufacturing & Shipping Chemist  
[palmyrachemmart@bigpond.com](mailto:palmyrachemmart@bigpond.com)

Stammers Shopping Centre  
 267 Canning Highway  
 Palmyra WA 6157

Tel: (08) 9339 5522  
 Fax: (08) 9319 9134

### CERTIFICATE OF COMPLIANCE OF NAVIGATION (HEALTH) REGULATIONS

*I certify that I have inspected the medical stores of the vessel,*

*"MV Maritime Image "*

*and have replenished the medicines and medical stores in accordance with Schedule, USL CODE SCALE F MEDICAL KIT FOR Australian Vessels according to the National Standard for Commercial Vessels, Part C, Section 7, Subsection 7A.*

*This certificate is valid for 12 months from the date stated below. It remains the responsibility of the master to ensure that medical supplies are stocked to the required level and any expired medicines are discarded in an appropriate manner.*

*Items which have not been supplied are:*

Signed:.....

.....**Mark Duffy**.....  
 (Member of Pharmaceutical Society  
 of Western Australia)

Issued Date: 16<sup>th</sup> January 2026



HECS FIRE SERVICES Pty Ltd

SPECIALISING IN FIXED AND PORTABLE FIRE EQUIPMENT

HECS FIRE SERVICES Pty Ltd | ABN 11 693 141 963

3 Parkinson Lane Kardinya, WA 6163

T. (08) 9371 8966 | E. hcs@hecsfire.com.au | W. hecsfire.com.au

## Fire Equipment Certification

This is to certify that HECS FIRE SERVICES has completed the Service and Inspection of the Fire Fighting Equipment in Accordance with the Relevant Australian Standards AS1851-2012 For the Vessel "MARITIME IMAGE" January 2026 Service Cycle

### SERVICE & INSPECT

1 x 1.0m x 1.0m Fire Blanket  
3 x 4.5kg ABE Dry Chemical Fire Extinguishers

### SERVICE, REFILL & RECHARGE – LEVEL 2:

2 x 9.0lt Air Foam Fluorine Free Fire Extinguishers

### SERVICE, INSPECT & TEST

1 x Fire Detection & Mistex Suppression System

### EQUIPMENT SUPPLIED REFER CPO 4136

1 x 9.0kg ABE Dry Chemical Fire Extinguisher

*Alfredo Chisari & Andy Campiello*

Service Technician: AC & AC  
Job No: FB1567 – 3693 – 109543  
Certificate No: CERT7790/KL  
Location List: LL 02262A





**WEST**  
OFFSHORE PRODUCTS

**WEST OFFSHORE PRODUCTS**

Downhaul Sales Brokerage & Charters  
ABN 13 003 478 695

## REINSPECTION CERTIFICATE

This is to certify that the safety equipment detailed below has been surveyed, controlled and tested in compliance with the requirements from the manufacturer and/or in accordance with the applicable national/international regulations where applicable.

Certificate Number: C320202003

Owner: SOUTH METROPOLITAN TAFE  
Vessel: MARITIME IMAGE  
Call Sign: null

Flagstate: null  
Class: null  
IMO: null

**Identification:**

Type	Capacity	Serial No.	Manufacturer	Model	Wt. (kg)
Life Raft	20	SH200487	Fujitsu	FRN-SN-20	N/A
Date Manufactured	Painter	Painter Expiry	Stowage Height		
01/09/2008	30	null	2E		

**Additional Tests:**

NAP Test	Gas Inflation Test	Floor Swain Test	David Lined Test
N/A	N/A	N/A	N/A

**EPIRB (where supplied):**

Manufacturer	Model	Serial No.	Hex ID	Expiry
Ocean Signal	EPIRB 1	01610002682	HEECC05090FFBFF	05/09/2008

**Hydrostatic Release Unit (where supplied):**

Manufacturer	Model	Serial No.	Expiry
N/A	N/A	N/A	N/A

**Gas Cylinders:**

Serial	CO2	N2	Latest Test	Manufacture Date
14207	4.030	0.140	30/03/2003	30/03/2008
20122	4.030	0.140	30/03/2003	30/03/2008

**Equipment:**

**AMSA Coastal ISO 9650-1 > 24**

Item Name	Batch	Expiry
Canopy Light Battery	null	30/11/2028
First Aid Kit	385	30/11/2028
First Aid Kit Additional	010524	30/04/2027
Food Rations	SH22PPS01013-1E	30/06/2027
Hand Flare	0835	30/03/2027
Parachute Rocket	1383	30/10/2028

Item Name	Batch	Expiry
Rescue Blanket	5L13227	28/02/2027
Seasick Tablets	240732	30/03/2029
Sunscreen	155485	30/08/2028
Teach Batteries	null	28/02/2027
Wear Ration	06062026F	30/04/2030

**Verification:**

Company: West Offshore Products  
Address: 57 Stockdale Rd, O'Connor WA 6163  
Technician: Casey Tysler

Date of Inspection: 13/03/2028  
Next Service Due: 13/03/2027

Signature:

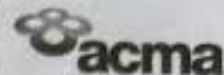
This certificate must be signed by the servicing technician and be stamped with a seal of authority to be a valid certificate.





# Apparatus Licence

Issued by Delegates of the Australian Communications and Media Authority



## Licensee details

Customer ID	20033813
Licensee	SOUTH METROPOLITAN TAPE
Trading name	SOUTH METROPOLITAN TAPE
Licensee address	1 Fleet Street, FREMANTLE, WA 6160

## Licence details

Licence service	Maritime Ship
Licence subservice	Ship Station Class B Non Assigned
Licence number	1611740/2
Callsign	VHW5537
Ship name	MARITIME IMAGE
Date of issue	18/07/2025
Date of effect	18/07/2025
Date of expiry	26/06/2026

## Licence conditions

Your licence is subject to conditions set out in the *Radiocommunications Act 1992*. Your licence may also be subject to such other licence conditions as determined by the ACMA (in licence condition determinations) from time to time, and is also subject to special conditions as detailed on this licence.

The conditions that are imposed on a licence vary according to the type of licence issued, the service being operated and the section of the *Radiocommunications Act 1992* under which the licence has been issued. For further information about the conditions that apply to your licence, please contact the ACMA (see contact details below).

### **Rights of appeal**

A decision by the ACMA to impose further conditions or revoke or vary the conditions of your licence may be reviewable. If you are affected by, and dissatisfied with, such a decision you may apply to the ACMA to have the ACMA reconsider the decision under section 288 of the *Radiocommunications Act 1992*.

An application for reconsideration must state the reasons for the request, and should be sent to the Customer Service Centre, Australian Communications and Media Authority, PO Box 78, Belconnen, ACT, 2616. Applications for review of decisions can be made using the R051 - Application for review of Decision form, available on the ACMA website.

### **Important**

An application for the ACMA to reconsider a decision to impose or vary licence conditions must be made to the ACMA within 28 days of the day on which you are informed of the decision. An application for reconsideration made after that time may not be accepted.

## ACMA contact details

Customer Service Centre  
PO Box 78  
BELCONNEN ACT 2616

Telephone: 1300 850 115  
Email: [info@acma.gov.au](mailto:info@acma.gov.au)

ACMA website: [www.acma.gov.au](http://www.acma.gov.au)

Certain information contained in this licence record will be disclosed in the Register of Radiocommunications Licences (RRL), established and maintained pursuant to Part 3.5 of the *Radiocommunications Act 1992*.

Maritime Ship - Ship Station Class B Non Assigned

Page 1 of 2

**Peter Wachmer**

**From:** ausbeacon@amsa.gov.au  
**Sent:** Wednesday, 24 July 2019 12:57 PM  
**To:** Peter Wachmer  
**Subject:** MMSI Allocation Advice - South Metropolitan TAFE

**REF: Australian MMSI Application Confirmation**

Dear MMSI applicant,

The extract below confirms the application for your Australian Maritime Mobile Service Identity number has been successful. Your MMSI number is listed below.

Please check your details carefully and let us know if there are any errors. It is important you contact us if your radio equipment is ever sold or transferred to another vessel.

The information on the register is important to your personal safety in the event of a search and rescue operation. Please ensure you take the time to keep your details up to date.

Contact Details	Phone	Email
South Metropolitan TAFE 1 Fleet Street Fremantle, WA, 6160	(W) 08 9239 8051 (M) 0411 313 354	peter.wachmer@smtafe.wa.edu.au

Emergency Contacts	Home Phone	Work Phone	Mobile Phone
Peter Wachmer		08 9239 8051	0411 313 354
Kerry Banyard		08 9239 8072	0427 081 403

Allocated	MMSI	Craft Name	Rego/Callsign	Radio Devices
11/07/2019	503088480	Maritime Image	04455	device type: VHF DSC make/model: Garmin VHF 215i AIS serial no.: 5QT000046
2/07/2019	503087690	Brockman	VM3264	device type: VHF DSC make/model: Garmin VHF 115i serial no.: 5QP002162
4/07/2019	503087960	LaKela	M&H 6414	device type: VHF DSC make/model: Garmin VHF115i serial no.: 5QP002164

Further information about Automatic Identification System (AIS) or Digital Selective Calling (DSC) can be found at [www.amsa.gov.au/mmsi](http://www.amsa.gov.au/mmsi)

You can update your registration details, add trip details or upload photos of your vessel online at any time at [www.amsa.gov.au/beacons](http://www.amsa.gov.au/beacons).

Thank you for your cooperation.

**Australian 406 MHz Distress Beacon and MMSI Register**

**AMSA Search and Rescue**

Level 2, 82 Northbourne Avenue, Braddon ACT 2612  
GPO Box 2181, Canberra ACT, 2601

OFFICIAL

REF Australian 406 MHz Distress Beacon and MMSI Register

Dear beacon owner,

The extract below confirms your beacon registration and Australian Maritime Mobile Service Identity numbers.

Please check your details carefully and let us know if there are any errors. It is important you let us know if the beacon (EPIRB/ELT/PLB) has been transferred to another vessel, aircraft, vehicle, or person or if your radio equipment is ever sold to someone else.

You may be required to carry proof of registration. If you received this letter by email, you can save it on your mobile phone. Otherwise you can carry this letter as proof of registration. If you would like to change your proof of registration preference go to [www.amsa.gov.au/beacons](http://www.amsa.gov.au/beacons).

The information on the register is important to your personal safety in the event of a search and rescue operation. Please ensure you take the time to keep your details up to date.

Contact Details	Phone	Email
South Metropolitan TAFE 1 Fleet Street Fremantle, WA, 6160	(W) 08 9239 8051 (M) 0411 313 354	<a href="mailto:peter.wachmer@smtafe.wa.edu.au">peter.wachmer@smtafe.wa.edu.au</a>

Emergency Contacts	Home Phone	Work Phone	Mobile Phone
Peter Wachmer		08 9239 8051	0411 313 354
Kerry Banyard		08 9239 8072	0427 081 403

Registered Beacon	Hex ID/UIN	Serial Number	Beacon Model	Craft Name	Reg/Callsign	Reg. Expiry
30/04/2019	3EEC6EA150FFBFF	523501	SA1G Safety Alert GPS EPIRB	Maritime Image	04465	30/04/2023
11/01/2021	3EECA61666FFBFF	0301202867U	SafeSea EPIRB1 Pro GPS Float Free EPIRB	Maritime Image	04465	11/01/2025
11/01/2021	3EECA6166AFFBFF	0301202869U	SafeSea EPIRB1 Pro GPS Float Free EPIRB	Brockman	VM3264	11/01/2025
11/01/2021	3EECA61668FFBFF	0301202868U	SafeSea EPIRB1 Pro GPS Float Free EPIRB	LaKela	M&H 6414	11/01/2025

Allocated	MMSI	Craft Name	Rego/Callsign	Radio Devices
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## COMMERCIAL VESSEL CHECK SHEET

Date	Time	Patrol Area (Metro/Regional)	Officer Name
Vessel Name	SPV / LFB / M&H Number	Location of Vessel	
Name of Master (Full Name R'grd)	DOB / /	Qual's	Verified
Address	Telephone		
Name of Engineer	DOB / /	Qual's	Verified
Owner Name			
Owner Address	Telephone		

### CERTIFICATE AND EQUIPMENT DETAILS

Manning Only <input type="checkbox"/>	Part Survey Check <input type="checkbox"/>	Crew Numbers <input type="checkbox"/>	Vessel Classes / /
Unberthed Passengers	Berthed Passengers	Special Personnel	Total POB

EQUIPMENT	Y	N	NA	EQUIPMENT	Y	N	NA
Log Book				Bilge Pump			
Compass Card				*Freezer Alarm Trawlers only			
Compass				Navigation Lights			
Clock / Barometer				Fire Extinguishers			
Radio/s Call Sign?				Fire Buckets			
Life Jackets				Freeing Ports Clear ???			
Flares / Pyrotechnics				Weather deck Hatches Condition: Good - Yes / Poor - No			
Medical Kit				Escapes Clear ???			
EPIRB				Guardrails Condition? Good-Yes / Poor - No			
Torch				Anchors - 1. 2.			
Sound Signal / Horn				Life Rafts (Float free capability)			
Bilge Alarm				Lifebuoys (Light - Line)			
Survey Certificate Carried	Yes <input type="checkbox"/>	No <input type="checkbox"/>	MA5 Y / N	Number	Infringement Y / N	Number	
Caution Y / N	Number		Engine Kw Power	KW	Vessel length	M	

OTHER / COMMENTS

CLASS 1B EQUIPMENT CHECK LIST (Pre 2008 USL Code): (To be read with corresponding note numbers below).

NOTE	SURVEY ITEM	VESSEL LENGTH	REQUIREMENTS
1	LIFERAFT ✓	LESS THAN 25m	Coastal liferaft/float for 100% complement. <b>REFER NOTE 1</b>
2	LIFEBUOYS ✓	10m TO 25m LESS THAN 10m	2 Lifebuoys, one with self-igniting light, one with buoyant line. 1 Lifebuoy, with self-igniting light.
3	LIFEJACKETS ✓	ALL LENGTHS	A SOLAS Lifejacket fitted with a light and whistle for each person of mass 32kg and over that the vessel is certified for, plus A SOLAS Lifejacket for each person of mass of less than 32kg that the vessel is certified for.
4	PYROTECHNICS ✓	ALL LENGTHS	3 Parachute Rockets, 2 Red hand flames and 1 Orange smoke signal.
5	SOUND SIGNAL ✓	ALL LENGTHS	Horn or portable air/gas horn
6	MISCELLANEOUS EQUIPMENT ✓	ALL LENGTHS	Chronometer, Deck Watch or timepiece of equivalent accuracy. ✓ Sextant, (Exemption may apply) ✓ Pair of Binoculars fitted with neck strap and carrying case. ✓ Barometer. ✓ Depth Sounding Device (Echo Sounder). ✓ Hand lead line. (Exemption may apply) ✓ Daylight Signaling light. ✓ Flags N & C of International Code of Signals. ✓ Charts and Nautical publications suitable for the vessel's area of operation. ✓ An Accommodation Ladder or Gangway. ✓ Safety Net. ✓ Electronic navigational aids as are considered necessary by the Department. ✓ Anchors, anchor chain (or rope), anchor winch. ✓ Ropes and Lines of sufficient number, length and strength for the size and service of the vessel. ✓ First aid kit to Scale D (Unberthed and Berthed passengers). ✓ Vessel Record Book (Log Book). ✓ Navigation lights and shapes appropriate to vessel's operation. ✓ Compass. ✓ Gas detector for LPG installations. ✓ Approved radio installation and an approved EPIRB. ✓
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17	FIRE PUMP ✓	15m TO 25m	1 Fire pump, with hydrants and hoses with nozzles to suit for every hydrant fitted. - nozzles
	EMERGENCY FIRE PUMP ✓	LESS THAN 25m	1 manually operated fire pump in a position outside the machinery space. - test working
18	FIXED FIRE SYSTEM ✓	12.5m and over but less than 25m	Fitted in propulsion machinery space. certify
19	FIRE EXTINGUISHERS ✓	ALL LENGTHS 20m TO 25m 15m TO 20m LESS THAN 15m	1 for each passenger space and crew space on each deck and one in each galley. 3 suitable for extinguishing oil fires, for use in each propelling machinery spaces. <b>REFER NOTE 19</b> 2 suitable for extinguishing of fires, for use in each propelling machinery spaces. 1 suitable for extinguishing oil fires, for use in each propelling machinery spaces.
20	EMERGENCY ELECTRICAL EQUIPMENT ✓	ALL LENGTHS	A self contained emergency electrical installation, in addition to main generating set, able to simultaneously operate emergency bilge pumps, watertight doors, indicators, fire protection system, emergency lighting, emergency signals, navigation lights and communications equipment for continuous operation for 12 hours.
	21 to 33 - VARIOUS	ALL LENGTHS	ITEMS CHECKED AT PERIODIC SURVEY - <b>REFER NOTES 21 to 33 BELOW</b>

NOTES

THESE NOTES REFER TO CORRESPONDING EQUIPMENT NOTE NUMBERS ABOVE

- Inflatable Liferaft's shall be serviced annually. Inflatable Liferaft's shall be identified with vessel's name, fitted with reflective tape 300mm long, 50mm wide and spaced at 500mm centres. Liferaft's are to be fitted with hydrostatic release and weak link, or be float free with a weak link, or be fitted to approved launching device. Vessels of less than 15 metres fitted with approved internal buoyancy in lieu of single compartment subdivision are required to carry the prescribed Liferaft(s) for 100% complement.
- Lifebuoys shall be identified with vessel's name and four bands of reflective tape at 90° to each other. The self-igniting light is to be attached to one lifebuoy and a minimum of 27m of buoyant line attached to the other. Lifebuoys must be readily accessible.
- Lifejackets shall be identified with vessel's name, fitted with reflective tape, SOLAS approved self-igniting light and whistle. Jackets are to be stowed in an easily accessible place for emergency use. 5% of each size of Lifejacket shall be stowed in a conspicuous place on deck. \*SOLAS\* jackets are minimum requirement for Class B vessels.
- Pyrotechnics shall be renewed by the manufacturer's expiry date marked on each one.
- Horn must give a minimum of 110 dB.
- Clock shall be positioned so to be in view of radio installation.
- Hand Lead Line if used is to consist of at least a 3kg lead and line of at least 48m, correctly marked. - check
- Daylight Signaling Light shall have the facility for flashing, not just an on/off switch. The signaling light shall not be solely dependant upon the vessel's main source of power. - check
- The minimum size of the flags is 600mm x 400mm.
- Anchors up to 25kg may be fitted with rope in lieu of chain; but at least 3m of chain must be shackled between rope and anchor. Anchors 25kg to 49kg may be fitted with rope, providing 6m of chain is shackled between rope and anchor. Anchors 50kg to 100kg - one anchor to have a chain shackled to it, the other anchor may be fitted with rope with 5m of chain shackled to it. Anchors over 100kg - both anchors require chain to be shackled to them. A manual anchor winch is required for anchors over 30kg, with a powered anchor winch for anchors over 50kg.
- For a complete First Aid equipment list, contact the Department, (contact numbers can be found on the front of this Pamphlet).
- A book designated as the log book is required to be kept on board at all times and made available to the surveyor on completion of the survey.
- Navigation lights will be tested at survey. Anchor and Masthead lights are to be individually switched.
- The compass is to be adjusted every 3 years and the deviation card displayed adjacent to the steering position.
- If LPG is fitted a gas detector is required if it is possible for the gas to leak below deck or accumulate in the vessel.

CONTINUED OVERLEAF

15	All vessels require the following distress frequencies, 4125, 5215, 3291 kHz, (It is recommended that 2182 kHz be retained). All vessels must also fit at least ONE of the following weather warning frequencies appropriate to the area of operation: 2056, 4149, 6230, 8113, 12362, 16526 kHz, as well as the navigation warning frequency of 8176 kHz. A call sign and tuning card for these frequencies shall be displayed next to the radio. The radio station licence and operator's certificate are to be produced at the time of survey. A test call will be made. An approved EPIRB for waters class D and above (406 MHz) shall be carried, mounted in the wheelhouse or life raft.
17	The Fire pump(s) will be tested with the fire hose and nozzle fitted.
18	Fixed fire fighting installation is to be serviced annually and a copy of the service document provided. Fixed fire fighting systems are to have an alarm fitted that is audible from the helm whilst underway. Detectors that are fitted in lieu of structural fire protection in accommodation, control and high risk spaces, are to meet the same requirements as, and can be incorporated in, the detection system fitted for the propulsion machinery space. CO <sub>2</sub> systems to be fitted with an isolation valve (AS 4214).
19	Minimum size of foam fire extinguisher is 8 litre. Minimum size of dry powder extinguisher is 4.5kg. Minimum size of CO <sub>2</sub> extinguisher is 3kg.
20	An Emergency source of electrical power shall be: a. Accumulator Battery (not starting batteries). b. A generator driven by a compression ignition engine. For further information on Emergency Electrical Equipment refer to attached sheet (Emergency Electrical Installations).
21	Engine starting batteries on new or modified vessels shall be fitted as high as practicable, above the deepest loaded waterline.

**All portable extinguishers must be serviced annually**

AT EACH PERIODICAL SURVEY OF THE VESSEL, THE SURVEYOR MAY ALSO INSPECT THE FOLLOWING:  
(MANY SMALL VESSELS WILL NOT HAVE ALL OF THE FOLLOWING ITEMS).

22	Main and auxiliary machinery, controls and instruments: engines will be tested whenever practical.
23	Cooling system, exhaust system and fuel system, (exhausts shall be lagged).
24	Steering systems, emergency steering, (recommended but not mandatory on twin-crew vessels).
25	LPG installation, (LPG audible alarm and solenoid cut-off to be functional). Pressure vessels. Electrical installation, (Note: Residual Current Device's (RCD's) required on systems exceeding 32 volts).
26	Pipe work, (sea water rubber hoses must be double-clipped each end). Approved rubber hose to be used eg "Dunlop Diamond 404".
27	Machinery guards on all rotating machinery.
28	Cargo/fishing gear, including winches, cranes, deck machinery etc.
29	Alarm systems, (All vessels require a machinery space bilge alarm, audible at helm). A bilge alarm is required in all compartments where sea water pumping systems are fitted. The bilge alarm must <u>not</u> operate off the same float switch that operates the electric bilge pump.
30	Bilge system. Pumps will be tested whenever practical.
31	Emergency shut-offs on fuel valves, engine room fans etc, vent closures.
32	Watertight integrity - doors, hatches, closing devices, windows, ventilators, etc.
33	Guardrails, freeing ports, emergency escapes.



EQUIPMENT LIST &  
SURVEY REQUIREMENTS FOR

**CLASS 1B VESSELS**

(pre 2008 USL Code)  
Less than 25 Metres in Length  
and under 500 tons GRT

DATE OF ISSUE: DEC 2004

**IMPORTANT**

This leaflet has been designed to assist a vessel owner in preparing a vessel for periodical survey in accordance with the Western Australian Marine Act.

This leaflet is not intended to cover every aspect of survey, and compliance with this leaflet does not necessarily constitute compliance with all relevant statutes.

For further information, please contact the COMMERCIAL VESSEL SAFETY BRANCH at:

1 ESSEX ST, FREMANTLE  
P.O. BOX 402, FREMANTLE W.A. 6959  
TELEPHONE: (08) 9216 8237  
FAX: (08) 9216 8978  
85 CHAPMAN ROAD, GERALDTON,  
P.O. BOX 68, GERALDTON, W.A. 6630  
TELEPHONE: (08) 9858 0113  
Fax: (08) 9858 0131

CVS (WB) 013

... or more in length overall display placards  
... the crew and passengers of the garbage discharge regulations.

- 11 For a complete First Aid equipment list, contact the Department. (contact numbers can be found on the front of this Pamphlet).
- 12 Navigation lights will be tested at survey. Anchor and Masthead lights are to be individually switched.
- 13 The compass is to be adjusted every 3 years and the deviation card displayed adjacent to the steering position.
- 14 If LPG is fitted a gas detector is required if it is possible for the gas to leak below deck or accumulate in the vessel.
- 15 Vessels shall be fitted with a minimum of a VHF radio installation and are limited to within 20NM radius of Fremantle, or an approved 24-hour manned coastal radio station. VHF frequencies for weather information vary - see the Bureau of Meteorology ([www.bom.gov.au/marine](http://www.bom.gov.au/marine)). A call sign and tuning card for these frequencies shall be displayed next to the radio. The operator's certificate is to be produced at the time of survey, and a test call will be made.
- An approved EPIRB for water class D and above (406 MHz) shall be carried, mounted in the wheelhouse or liferaft.
- 17 The Fire pump(s) will be tested with the fire hose and nozzle fitted. (deck hoses are only acceptable if nozzle is readily attachable in an emergency.)
- 18 Fixed fire fighting installation is to be serviced annually and a copy of the service document provided. Fixed fire fighting systems are to have an alarm fitted that is audible from the helm whilst underway. Detectors that are fitted in lieu of structural fire protection in accommodation, control and high risk spaces are to meet the same requirements as, and can be incorporated in, the detection system fitted for the propulsion machinery space. CO<sub>2</sub> systems to be fitted with an isolation valve (AS 4214).
- 19 Minimum size of foam fire extinguisher is 9 litre,  
Minimum size of dry powder extinguisher is 4.5kg,  
Minimum size of CO<sub>2</sub> extinguisher is 3kg. — All portable extinguishers must be serviced annually.
- 20 One of these torches may be the vessel's signalling light (refer note 9).  
Starting batteries on new or modified vessels shall be fitted as high as practicable, above the deepest loaded waterline.

AT EACH PERIODICAL SURVEY OF THE VESSEL, THE SURVEYOR MAY ALSO INSPECT THE FOLLOWING:  
(MANY SMALL VESSELS WILL NOT HAVE ALL OF THE FOLLOWING ITEMS).

- 21 Main and auxiliary machinery, controls and instruments: engines will be tested whenever practical.
- 22 Cooling system, exhaust system and fuel system (exhausts shall be logged).
- 23 Steering systems, emergency steering, (recommended but not mandatory on twin-screw vessels).
- 24 LPG installation, (LPG audible alarm and solenoid cut-off to be functional). Pressure vessels. Electrical installation. (Note: Residual Current Device's (RCD's) required on systems exceeding 32 volts)
- 25 Pipe work, (sea water rubber hoses must be double-clipped each end). Approved rubber hose to be used eg "Dunlop Diamond 404"
- 26 Machinery guards on all rotating machinery
- 27 Cargo/lifting gear, including winches, cranes, deck machinery etc.
- 28 Alarm systems. (All vessels require a machinery space bilge alarm, audible at helm).  
A bilge alarm is required in all compartments where sea water pumping systems are fitted.  
The bilge alarm must not operate off the same float switch that operates the electric bilge pump.
- 29 Bilge system. Pumps will be tested whenever practical.
- 30 Emergency shut-offs on fuel valves, engine room fans etc, vent closures.
- 31 Watertight integrity - doors, hatches, closing devices, windows, ventilators, etc.
- 32 Guardrails, freeing ports, emergency escapes.

EQUIPMENT LIST &

SURVEY REQUIREMENTS FOR

(Pre 2008 USL Code)

CLASS 1D VESSELS

Less than 25 Metres in Length  
and Under 500 tons GRT

DATE OF ISSUE: DEC 2004

IMPORTANT

This leaflet has been designed to assist a vessel owner in preparing a vessel for periodical survey in accordance with the Western Australian Marine Act.

This leaflet is not intended to cover every aspect of survey, and compliance with this leaflet does not necessarily constitute compliance with all relevant statutes.

For further information, please contact the COMMERCIAL VESSEL SAFETY BRANCH etc.

1 ESSEX ST. FREMANTLE  
P.O. BOX 402, FREMANTLE, W.A. 6950  
TELEPHONE: (08) 9276 8237  
FAX: (08) 9276 8978  
65 CHAPMAN ROAD, GERALDTON,  
P.O. BOX 68, GERALDTON, W.A. 6530  
TELEPHONE: (08) 9826 0113  
FAX: (08) 9826 0131



## Class 1B - Emergency Electrical Installation

The emergency source of power including any fuel supply shall be situated outside of the propulsion machinery space, not forward of the collision bulkhead and be above the uppermost continuous deck.

An emergency source of electrical power including any fuel supply shall be so situated within the vessel in relation to the main source of electrical power, that a fire or other casualty occurring in the propulsion machinery space will not interfere with the supply or distribution of emergency power outside that space.

The emergency generator and its prime-mover and any emergency accumulator battery shall be so arranged as to ensure that it will operate at full rated power when it is upright and when inclined at any angle of list up to and including 22° either way or up to and including 10° inclination either way in the fore and aft direction, or in any combination of angles within those limits.

### Battery

An accumulator battery shall be capable of carrying the total emergency load without recharging or excessive voltage drop for the time specified at item 20 for Class 1B which is 12 hours. An accumulator battery shall comply with Section 9, sub-clause 27.12 of the Uniform Shipping Laws Code where applicable. Where a Class 1B vessel has an emergency source of power from an accumulator battery only, then in the event of failure of the main electrical supply the emergency lighting shall automatically come into operation.

### Internal Combustion Engine Prime Mover.

Fuel for an internal combustion engine shall:

- (a) have a flash point of not less than 60 °C; and
- (b) be sufficient for the time specified at item 20, where an emergency fire pump is supplied with power from an emergency generator, be sufficient for 12 hours full rated operation of the pump.

An emergency generator shall be installed in a space affording protection from the weather and such space shall be adequately ventilated to allow the generator to operate at full power.

Starting arrangements shall comply with the following:

- (a) An engine may be hand started.
- (b) Where an engine is not hand started, the starting equipment shall be capable of effecting 12 consecutive cold starts in a period of not more than 30 minutes and where the emergency generator supplies power to an emergency fire pump shall also be capable of effecting 4 cold starts in a period of not more than 10 minutes.
- (c) The consecutive starts required by the preceding sub-paragraph shall be obtained independently of any machinery wiring or other equipment situated:
  - (i) below the bulkhead deck in the case of a passenger vessel;
  - (ii) forward of the collision bulkhead;
  - (iii) in the space containing the main source of electrical power; and
  - (iv) in a space which would be rendered inaccessible or uninhabitable by a fire or other casualty in the space containing the main source of electrical power; and
- (d) Where compressed air is used as the sole means of starting an engine then a manually operated air compressor or manual start mechanically driven air compressor unit shall be provided. If only a manual operated compressor is fitted a small air bottle which will provide one start of the engine shall be fitted in addition to the main air receiver for the engine and both shall be capable of being supplied from the vessel's main compressed air system. Where an air receiver for an emergency generator has a supply from the main or auxiliary compressed air system then the air supply line shall be fitted with a non-return valve and the non-return valve shall be located in the emergency generator space.

### Temporary Source of Emergency Power

Where a Class 1B vessel is provided with a generator as an emergency power source then a temporary source of emergency power shall be provided consisting of an accumulator battery of sufficient capacity:

- (a) to supply emergency lighting continuously for half an hour;
- (b) to close the water tight doors (if electrically operated) but not necessarily to close them all simultaneously;
- (c) to operate the indicators (if electrically operated) which give warning that power operated watertight doors are about to close; and
- (d) to operate the sound signals (if electrically operated) which give warning that power operated watertight doors are about to close.

The temporary source of emergency power shall come into operation automatically in the event of failure of the main electrical supply.

### Emergency Switchboard

An emergency switchboard forming part of the emergency electrical installation shall be installed as near as practicable to the source of emergency power except that:

- (a) Where a generator is provided as the emergency source of electrical power then the emergency switchboard shall be located in the same space as the generator, unless the operation of the emergency switchboard would be impaired; and
- (b) Where an accumulator battery is provided as the emergency source of electrical power then the battery shall not be installed in the same space as the emergency switchboard.

An emergency switchboard may be supplied from the main switchboard in normal operation.

### Items Supplied With Emergency Power

Items required to be supplied with emergency power are as follows:

- (a) An emergency bilge pump where electrically operated;
- (b) A watertight door where electrically operated;
- (c) An indicator which shows whether a power operated door is open or closed and the sound signals which give warning that a power operated door is about to close;
- (d) A fire protection system;
- (e) Emergency lighting;
- (f) Emergency signals;
- (g) Navigation lights;
- (h) Communication equipment;

CONTINUED OVERLEAF

AMENDED

New notice by Electrical Contractor - replaces notice E1799485



Government of Western Australia  
Department of Mines, Industry Regulation and Safety



Notice Approved Form  
Certificate number  
E1799485-1

**ELECTRICAL SAFETY CERTIFICATE**

Electricity (Licensing) Regulations 1991, Regulation 52B

This certificate warrants that the electrical installing work described below is safe and complies with the Electricity (Licensing) Regulations 1991.

This Electrical Safety Certificate is the certificate of compliance referred to in Regulation 52B of the Electricity (Licensing) Regulations 1991. This regulation requires that the electrical contractor/authorised<sup>1</sup> electrician completing electrical installing work must, with 28 days of completing the work, provide a certificate of compliance in respect to the work to the person for whom the work was carried out.

**Installation Details**

Owner/Occupier Name: South Metropolitan Tafe (92398051) Meter No. Revenue meter installed - Number not accessible or known

Builder/Client Name

Address: 14 CAPO D'ORLANDO DR SOUTH FREMANTLE 6182  
-32.05551964, 115.74880247

Inspection Only

Date of Completion: 09/02/2024

**Details of work completed (indicate a number/rating where relevant)**

Inspected installation of work on vessel Maritime Image to confirm a minimum of two RCDs protecting all socket outlets and lighting points and smoke alarms are installed in accordance with the WA Building Regulations.

**Details of RCD Protection**

All the socket outlet and lighting final subcircuits of the installation are protected by at least two RCDs? Yes  
if NO, what circuits are not protected:

Mains powered smoke alarm(s) are installed? Yes  
if NO, what smoke alarms exist:

Do smoke alarms comply with WA Building Regulations? Yes

**Details of any defects observed (alterations and additions only)**

**Certification by authorised<sup>1</sup> electrician**

I certify that I have inspected the electrical installation that is subject of this certificate, with the findings provided.

Name	TRENT BROOM
Licence No.	EW167119
<b>Details of electrical contractor</b>	
Licence No.	EC10672
Business Name	TECHWORKS ELECTRICAL
Business Address	P.O. BOX 1149 OSBORNE PARK DC WA 6916
Phone No.	+61402106489, 1300 217 395
Facsimile No.	
Email Address	admin@twgroup.com.au
Date	09/02/2024

<sup>1</sup> Authorised pursuant to Regulation 52B(5) of the Electricity (Licensing) Regulations 1991



# Certificate of Test and Examination

PWB ANCHOR LIMITED ABN 29 804 238 132

441 Grimshaw Street, Sandown  
Victoria, Australia 3083  
Postal Address  
P.O. Box 77, Sandown, Vic. 3083  
Phone: 1300 792 262  
Facsimile: (03) 9467 1290

Certificate Number V0240095-1  
Date 22-Jan-18  
Sales Order Number 00538164

Customer A.M.I. SALES  
PO BOX 361  
HAMILTON HILL WA 6163

Order Number 36261  
Date 31-May-17  
Customer Number 1016


Part Number : 40080  
Description : 13 GRADE L CHAIN GALV BULK PAK  
Quantity : 110 M  
Proof Load : 41.9kN  
Break Load : 83.7kN  
Elongation (%) : 20  
Declaration Of Compliance <sup>(3)</sup> : AS2321  
Identification <sup>(4)</sup> : AN569

100% PROOF TESTED & STRESS RELIEVED  
W.L.L. 1.7t based on design factor 5:1 (Lifting)  
M.W.L. 2.1t based on design factor 4:1 (Mooring)  
MADE IN AUSTRALIA

**Notes:**

1. Test Certificates issued by PWB Anchor Limited, are valid only in respect of products in the condition in which they leave the company's premises, and should not be reproduced except in full.
2. Tests are conducted in accordance with PWB Anchor Limited Standard Operating Procedures.
3. Declaration Of Compliance denotes the applicable document which nominates the relevant minimum Elongation, Proof Load and Break Load.
4. Identification is either a Lot, Batch, Serial, or Work Order Number as applicable to the goods described.

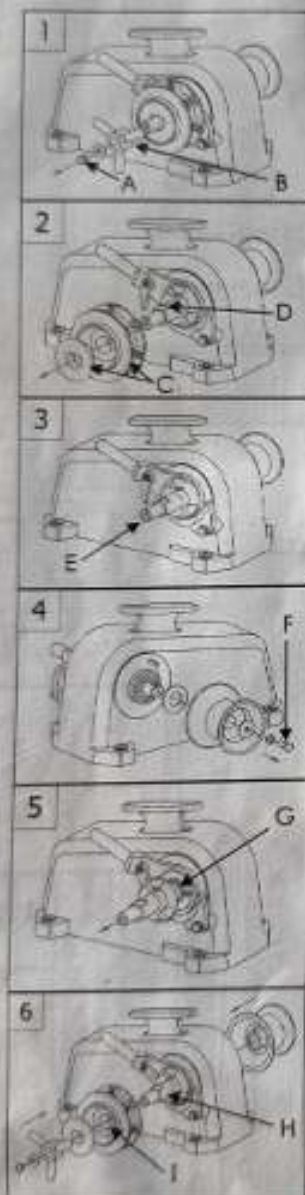
AUTHORISED SIGNATURE  
Name Of Signatory

  
S.SIPAHIOGLU

**MAINTENANCE INSTRUCTIONS**

You will require the following tools to complete this procedure:

- (i) Clutch/Manual recovery handle
- (ii) 20mm (13/16") Socket & 3" extension bar with ratchet, and a large flat screwdriver.
- (iii) A Lithium/Teflon based marine grease.
- (iv) HR 4000 Exploded view Dwg: K08-COMHR4000



**1. Removing Clutch Nut**

The Clutch nut (B) can be removed by turning it anti-clockwise (this may require the initial use of the Clutch/Manual recovery handle).

**2. Removing Gypsy & D-cone.**

The D-cone & Gypsy (C) are now free to remove from the Main Shaft (D).

**3. Greasing** (if no further maintenance is required)

After removing the gypsy & D-cone it is now possible to grease the exposed Main shaft & cone (E). Then reverse the above steps to re assemble. [Also see Note on bottom of page]

**4. Removing Capstan.**

Place 20mm (13/16") Socket onto (F) Screw and turn anti-clockwise to remove. Now the Capstan can be removed. Taking care not to lose the capstan drive key.

**5. Greasing**

Slide Shaft out partly as shown, then generously grease (G) the surface/bore of bush and exposed Main Shaft

**6. Re-assembly**

Before re-assembly, grease the exposed Main Shaft/cone (H) & Gypsy bore (I). To complete the service or replacement of parts reverse the above steps.

**Note:**

- We recommend the use of Lithium/Teflon based grease.
- We also recommend that the windlass be serviced at least yearly.

In the case of Work/Charter Vessels the windlass may require a more regular servicing



Commercial Vessel Safety  
**Information Sheet**

Number: 05

Date of Issue: April 2004

**USL Code First Aid Kit - Scale F (Pre 1/10/2008)**

For the following Class Operating Areas:

- 1D and 1E (Berthed Passengers)
- 1C (Unberthed Passengers)
- 2C

**Medicines and Medical Stores to be carried in Medical Locker and First Aid Case**

Articles to be carried:	Quantity in pack	Number of Packs
Bandages open weave, 50mm x 5m	1	3 x 1 ordered
Elastic adhesive dressings assorted sizes	12	2 ✓
Crepe bandage 75mm x 1m approx	1	1 ✓
Sterilized absorbent cotton wool	100 g	2 x 1 ordered
Zinc oxide, self adhesive bandage 25mm x 1m	1	3 x 1 ordered
Iodine, weak solution 2.5 per cent	25 ml	1 x
Amethocaine (Tetracaine) 0.5 per cent Eye drops in vials holding one application-sterile	20	1 x
Cough Linctus	100 ml	2 x
Cetrimide Cream 0.5 per cent in tube	50 g	2 x
Non-adhesive dressing pads Novalind or equivalent 80mm x 80mm	25	1 ✓
Triangular bandages	..	2 ✓
Splints (2 arm) (1 leg)	..	2 (arm) ✓ 1 (leg) ✓
Safety pins-assorted sizes on card	12	1 ✓
Lancet	..	1 ✓
Scissors	..	1 pair ✓
Splinter forceps	..	1 pair ✓
Medicine measures-plastic metric	..	3 ✓
Clinical thermometer	..	2 ✓
Copy of first-aid leaflet of instructions	..	1 ✓

Any first aid kit deemed to be practically equivalent by a Pharmacist or Registered Nurse may also be accepted in lieu of the above Scale.



STABILITY No. 4465

STABILITY REPORT FOR  
"MARITIME IMAGE"

18.3m FISHING VESSEL

Department of Transport

29 APR 1996

Marine Safety  
Fremantle



*G.R.S.f*

BUILT BY IMAGE BOAT BUILDERS  
DESIGN BY BLAAUW DESIGNS

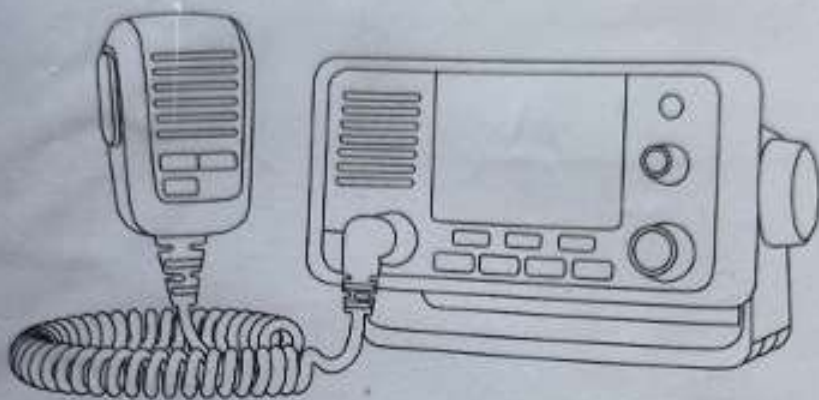
Commercial Vessel Safety - Fremantle  
APPROVED BY  
**GEORGE SZYNAKA**  
14 SEPT 1996 *G.R.S.f*

STABILITY APPROVED  
According to The 1988 SOLAS Convention  
**TOTAL 25 PAGES**

STABILITY No. **4465**  
Vessel No. **18** Date **17 9/8**

ISSUED APRIL 1996

GARMIN.



## VHF 115/215 AIS SERIES

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Owner's Manual



M116022



# NIPPON HAKUYOHIN KENTEI KYOKAI

## INSPECTION CERTIFICATE FOR ARTICLES FOR SHIP USE OF APPROVED TYPE

No. 94TK-B 214

Date APR. 25. 1994

THIS IS TO CERTIFY that the following articles were tested and inspected by the Society's Surveyor in accordance with the Rules for Type Approval of Ships and Articles for Ship Use under the Ship Safety Law of Japan and were found to conform to the Approved Type.

Type Approval No. : 3445

Description and Type : 100 WATT (100 WAVE) (120 dB and under 130 dB) NVA-420

Quantity : 100 SETS

Date of Manufacture : DEC. 1993

Manufacturer's Serial Nos. : NP16418~NP16517

Manufacturer : Japan Radio Co., Ltd. Mitaka Plant  
1-1, 5-chome, Shinorenjaku, Mitaka City, Tokyo, Japan

Inspection Mark :

Remarks : Also complying with the relevant provisions of the International Regulations for Preventing Collisions at Sea, 1972.

Issued under the authority of the Government of Japan.

Surveyor A. Takakoshi

NIPPON HAKUYOHIN KENTEI



*Photocopy  
when needed*

JFC-130  
JFC-130HP

COLOR ECHO SOUNDER

INSTRUCTION  
MANUAL

**JRC** *Japan Radio Co., Ltd.*

**JABSCO**

## Submersible Bilge Pump Model 30240-Series



### INSTALLATION

For maximum water evacuation, the pump should be located in the lowest point of the bilge. Determine the best location and pump position for ease of plumbing and direct routing of discharge hose. Mark the location of the strainer base, and position of base release tabs. Depress base release tabs and separate the strainer base from the pump housing.

The strainer base may be attached to the bilge with either small stainless steel sheet metal screws (#8 x 1/4" - 3/8" are adequate) or a polysulfide based sealing compound.

Use screws only if you are positive bottom thickness is greater than the depth of penetration of the screw. When drilling holes it is advisable to wrap a piece of tape around the drill bit so the edge of the tape marks the maximum hole depth required. Position base and align release tabs with position previously marked and mark position of the four mounting screw holes in the base. Vary carefully drill four holes where marked and secure base to bottom with stainless steel screws. Do not crack base by over tightening screws. Snap the pump housing onto the base ensuring it is properly seated and latched in position.

A quality polysulfide based sealing compound may be used as an adhesive to secure the strainer base in the bilge. Ensure the area marked for mounting pump is thoroughly clean and free of oil residue. Apply a liberal circular bead of sealant on bottom of strainer base and apply a liberal dab of sealant to each screw hole in base. Press the base onto the bottom in the position marked, ensuring the base locking tabs align with their respective marked position.

Allow the sealant to cure in accordance with the manufacturer's instructions (generally 8 to 24 hours) then snap the pump housing onto the base, ensuring it is properly seated and latched in position.

A Jabsco-FS-20 Float Switch can be attached directly to the side of the bilge pump by means of the switch mounting clip included with the 1750 pump.

### DESIGN FEATURES

- Large Strainer Base To Protect Pump From Debris
- Exclusive Quadruple Lip Seal Protects Motor From Moisture
- Anti-Airlock Pump Design To Clear Water Traps In Discharge Hose
- Electrically Isolated Motor Shaft Prevents Stray Current Leakage
- Meets A.B.Y.C.\* Requirements

\* A.B.Y.C. - American Boat & Yacht Council established standards for uniform and safe boat and yacht construction

# JABSCO

## PAR - MAX SERIES Water System Pumps

- 31595-SERIES
- 31600-SERIES
- 31620-SERIES
- 31630-SERIES

- 2+ - 2.8 GPM (10.6 LPM)
- 3 - 3.5 GPM (13.2 LPM)
- 4 - 4.3 GPM (16.3 LPM)

### FEATURES

- Self-Priming to 10 ft. (3 m)
- Runs Dry Without Damage
- Smooth Flow
- Four Piston Diaphragm Pump
- Powerful Motor with Thermal Overload Protection
- Snap-In Ports
- Waterproof Coating (31630-Series)
- Pressure Switch with Boot
- Meets USCG Regulation 183.410 and EN ISO 8846 MARINE (Ignition Protection)
- Meets EN 50081-1 Electro-magnetic Compatibility

### APPLICATIONS

Jabco Automatic Water System Pumps are designed for self-contained boats and RV's with multiple fixture water systems. The system operates automatically. When a fixture is opened, the pump instantly begins operation to provide a smooth constant flow from tank to faucet. Closing the faucet automatically discontinues pump operation.

The Deluxe model 31630-Series has a corrosion resistant coated motor for extra protection in harsh environment applications.



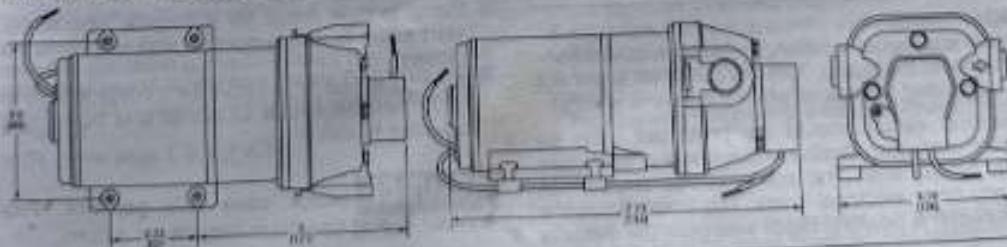
### SPECIFICATIONS

- Pump Body - Glass Filled Polypropylene
- Pump Design - Multi-Chamber Diaphragm
- Suction Lift - Self Priming to 10 ft. (3 m)
- Ports - 1/2" (13 mm) Hose & 1/2" (13 mm) Threaded (GEST Type)
- Motor - Permanent Magnet
- Shipping Weight - 3.9 lb (1.8 kg) 31595-Series  
4.5 lb (2.1 kg) 31600-Series  
6.0 lb (2.8 kg) 31620-Series  
31630-Series

MODEL	GPM/LPM	VOLTS	NOMINAL psi (bar)		AMP DRAW @ 10 psi	FUSE/ BREAKER*
			CUT-IN	CUT-OUT		
31595-0092	2.8/10.6	12 Vdc	20 (1.4)	40 (2.8)	4	10
31595-0094	2.8/10.6	24 Vdc	20 (1.4)	40 (2.8)	2	7
31595-0292	2.8/10.6	12 Vdc	10 (0.7)	25 (1.8)	4	10
31595-0294	2.8/10.6	24 Vdc	10 (0.7)	25 (1.8)	2	7
31600-0092	3.5/13.2	12 Vdc	20 (1.4)	40 (2.8)	5	10
31600-0094	3.5/13.2	24 Vdc	20 (1.4)	40 (2.8)	3	7
31600-0292	3.5/13.2	12 Vdc	10 (0.7)	25 (1.8)	5	10
31600-0294	3.5/13.2	24 Vdc	10 (0.7)	25 (1.8)	3	7
31620-0092	4.3/16.3	12 Vdc	20 (1.4)	40 (2.8)	6	10
31620-0094	4.3/16.3	24 Vdc	20 (1.4)	40 (2.8)	3	7
31620-0292	4.3/16.3	12 Vdc	10 (0.7)	25 (1.8)	6	10
31620-0294	4.3/16.3	24 Vdc	10 (0.7)	25 (1.8)	3	7
31630-0092	4.3/16.3	12 Vdc	20 (1.4)	40 (2.8)	6	15

\* Customer supplied, not included with pump.

### DIMENSIONAL DRAWINGS - INCHES (mm)



# 900MA - 1000MA Series Fuel Filter / Water Separators for Diesel Engines

MARINE



LISTED  
168Y

## RACOR

Parker Hannifin Corporation  
Racor Division  
P.O. Box 3208, 3400 Finch Road  
Modesto, CA 95353 USA  
209/521-7860 800/344-3286

**Parker**  
Filtration

Die-cast aluminum lid, body and formed bracket. All coated with electrostatic epoxy paint for excellent corrosion resistance.

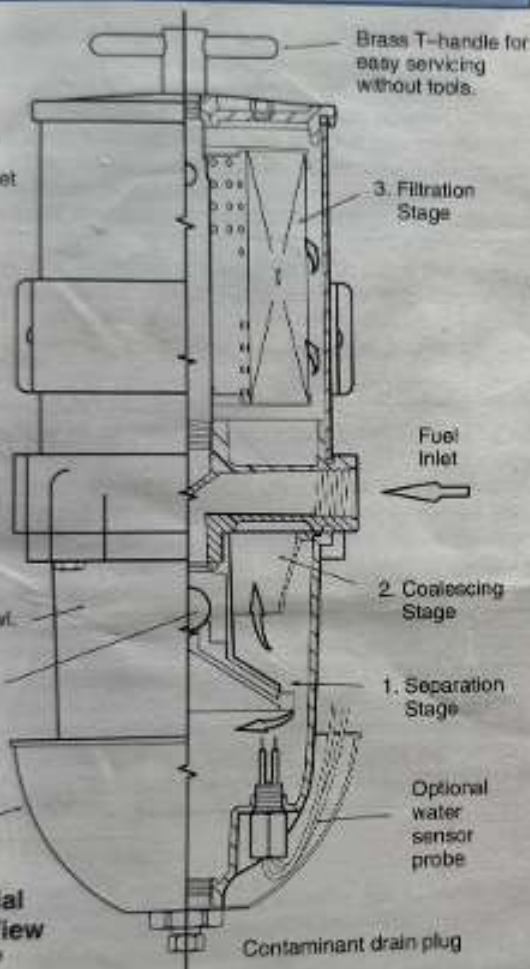
Fuel Outlet

High-impact engineered polymer collection bowl.

Flow check-valve

Stainless steel heat deflector shield

Front Partial Cutaway View of 900MAP



Brass T-handle for easy servicing without tools.

3. Filtration Stage

Fuel Inlet

2. Coalescing Stage

1. Separation Stage

Optional water sensor probe

Contaminant drain plug

The Racor 900/1000 Series Fuel Filter/Water Separators protect the precision components of your engine from dirt, rust, algae, asphaltines, varnishes and especially water which is prevalent in engine fuels. Racor removes contaminants using a patented three stage process:

- Separation:** The turbine separates heavy solids and "free" water through enhanced centrifugal force.
- Coalescing:** Smaller water droplets and solids coalesce on the conical baffle and fall to the contaminate collection bowl.
- Filtration:** Engines will benefit from near 100% water separation and fuel filtration with Racor's proprietary **Aquabloc**™ water repelling media. The replaceable filter elements are available in 2, 10 and 30 micron (nominal) ratings.

These units are designed for installation on the suction (vacuum) side of the fuel transfer pump for best efficiency.

The standard fuel ports are 7/8"-14 SAE J1926 O-ring seal type. 22mm metric ports are optional. Fittings are not supplied with this unit but are available from your Racor dealer. Please refer to the fittings chart on the back page.

The bracket is a one-piece clamp-type (shown) with grade 5 fasteners for ensured durability. The 900 series use one clamp bracket and the 1000 series use two.

The see-thru contaminant collection bowl provides for a quick visual check of water and solid accumulation.

**OPTIONAL FEATURES:** See Accessories. A water sensor probe alerts the operator when it's time to drain the see-thru bowl. (Must be used with a Racor water detector kit). For use with diesel applications only.

A vacuum gauge kit is also available to inform the operator when it is time to change the element.

A metal collection bowl may be specified for diesel, but is recommended for gasoline applications (MAM units). Not available for use with water sensor.

### PART NUMBER IDENTIFICATION:

The example below illustrates how the part numbers are constructed.

900MA (90GPH)	-P	-10
1000MA (180GPH)		
Basic Model	Water Sensor	Element Micron rating. Specify:
Add 'M' for metal bowl	Probe. Add 'P'	
Recommended for	Not available with metal bowl. Omit if not desired.	2 = 2 micron 10 = 10 micron 30 = 30 micron
Gasoline fuel systems. (example: 900MAM)		
Call factory for metric parts		

SPECIFICATIONS	900 Series	1000 Series
Fuel Ports, SAE J1926	7/8"-14 or 22mm	7/8"-14 or 22mm
Maximum Flow Rate	90 GPH / 341 LPH	180 GPH / 681 LPH
Replacement Element	2040 (see parts list)	2020 (see parts list)
Overhead space required	5" / 127mm, min.	10" / 254mm, min.
Clean Pressure Drop*	.34 PSI / 2.4 kPa	.49 PSI / 3.3 kPa
Assembly Test Pressure	100 PSI / 690 kPa	100 PSI / 690 kPa
Height	16" / 406 mm	21" / 533 mm
Width	6" / 152 mm	6" / 152 mm
Depth	7" / 178 mm	7" / 178 mm
Weight, Dry	6 lbs. / 3 kgs	10 lbs. / 5 kgs
Temperature Rating	-40° / +255° F -40° / +121° C	-40° / +255° F -40° / +121° C

\* Specifications result from tests conducted at the maximum flow rate.

Simplified Flow Rate Formula for Medium & Heavy Duty Engines

Horsepower X .36 = Approximate (GPH) fuel pump flow rate.

Consult your engine manufacturer for exact specifications.

POWER DRAIN  
Equipped with manual  
b port fittings. Inlet  
3.9"H x 4.2"W

FLO

JET CORPORATION  
Morgan, Irvine, CA  
(714) 859-4945  
(714) 859-1153

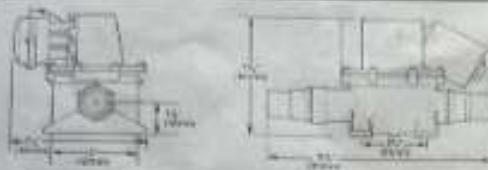
JET EUROPE  
Avant Business  
High West House  
Keymer, Sussex  
10L  
908-370067  
373221





## Installation Instructions T-Series Macerator and Discharge Pump

Dimensional Drawing



Discharge/Suction Lifts (feet)

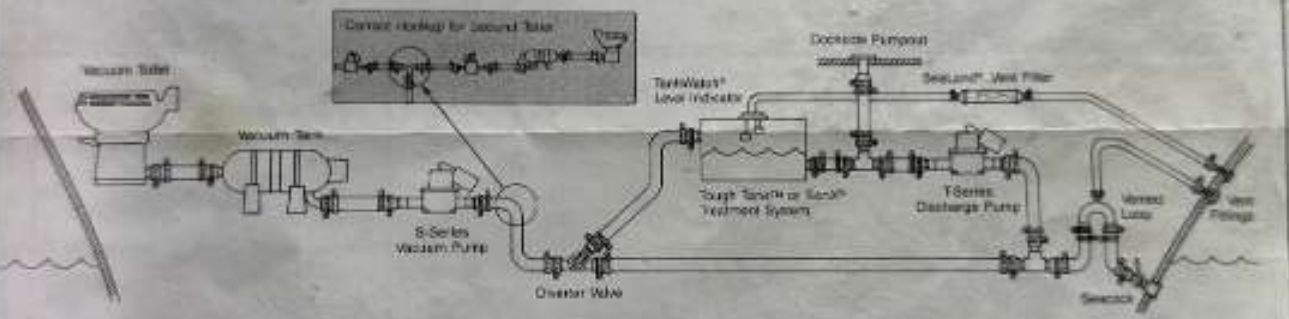
Discharge	0	2	4	6	8	10
Suction	10	8	6	4	2	0

Model	Volts (DC)	Avg. Amp. Draw	GPH	Fuse/Breaker	Wire Size	Weight
T12	12	6	200	10 Amp	12 - 14 Ga.	7 Lbs.
T24	24	3	150	5 Amp	14 - 16 Ga.	7 Lbs.
T32	32	2	180	5 Amp	14 - 16 Ga.	7 Lbs.

### Caution

This pump is not for use as a VacuFlush® toilet pump. Damage to the pump and system would result. When pump is used to discharge SanX® or TDX systems, follow electrical and plumbing instructions in your SanX® or TDX owners manual. When using this pump with a holding tank, see illustration below.

### Typical One and Two Toilet Installation



### Before mounting the pump, you must consider the following:

- The pump must be mounted horizontally, (motor on top) on floor, deck or shelf. The pump will not operate if mounted vertically or on its side.
- The pump should be mounted above the holding tank to prevent waste overflow during maintenance or repair. (See Diagram)
- It is recommended that a 1½" valve be installed at tank outlet for maintenance or repair, if #2 is not possible.
- You may want to provide a dip in the hose at the outlet of the holding tank to facilitate tank drainage during pump-out. This dip should extend below the tank outlet approximately 6".
- When mounting space prohibits installing the pump above the holding tank, you should provide a loop in the hose that extends to the top of the holding tank between the tank outlet and the pump inlet. This will reduce overflow during maintenance or repair.
- Vessels with an underwater discharge seacock or thru-hull must have a vented or anti-siphon loop installed well above the water line between the pump outlet and the seacock or thru-hull. The vented loop should be plumbed with hose to a thru-hull fitting well above the water line.
- When the T-Pump is replacing a macerator type discharge pump you will need the 1½" x 1" hose coupling provided. This coupling utilizes the 1" seacock already installed. Mount the hose coupling in the discharge line at least 5 feet away from the pump outlet to prevent possible plugging due to the size reduction. You will need 5 feet of 1½" hose to run from the T-Pump to the hose coupling.
- The use of a Noise Isolation Kit, part #319053, will greatly reduce the low frequency noise that can originate from the T-Pump during operation. This is important when mounting the pump to fiberglass or wood surfaces.

**Important:** The T-Pump inlet and outlet hose fittings have left hand threads. Be certain that fittings have not loosened during hose installation. To tighten valve nipples, turn counterclockwise. To loosen, turn clockwise.



# 15 Million Candle Power Spotlight Rechargeable

SL 06315



ump body  
Coupling  
Bushing kit  
eccentric  
Phillips Head Screw  
Motor Mounting Base  
Motor, 12VDC  
Motor, 24VDC  
Motor, 32VDC  
Lockwasher, Extra  
Screw 1/4-20 x 1/2  
Washer Head Screw  
#10-10 x 1/2" SS  
ump Assembly  
Includes Parts 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15  
for Replacement

ump, hyper  
ng will cause

nd systems

ead

User Manual  
Please review before operating vac.

Wet/Dry Vacuum

**MODEL K11-SQ14  
K12-SQ14  
K14-SQ14**

# shop-vac®

the **Original** wet/dry vac

Household and Workshop Use.

## **ATTENTION!**

Read all safety rules carefully before attempting to operate.  
Retain for future reference.

## **DANGER!**

Never operate this unit when flammable materials or vapors are present because electrical devices produce arcs or sparks that can cause a fire or explosion. **NEVER OPERATE UNATTENDED.**

## **AUTHORIZED SHOP-VAC SERVICE CENTRES**

If your Shop-Vac Wet/Dry Vac ever needs repair or maintenance during the warranty period or any time thereafter, there are Authorized Shop-Vac Service Centres located across the country (please see the enclosed separate pamphlet).

Do not attempt to service your Shop-Vac Wet/Dry Vac beyond that described in the User Manual. For all other servicing, please refer to a qualified Shop-Vac Service Centre.

## **IMPORTANT SAFETY INSTRUCTIONS**

When using an electrical appliance, basic precautions should always be followed, including the following:  
**READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE.**

### **WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:**

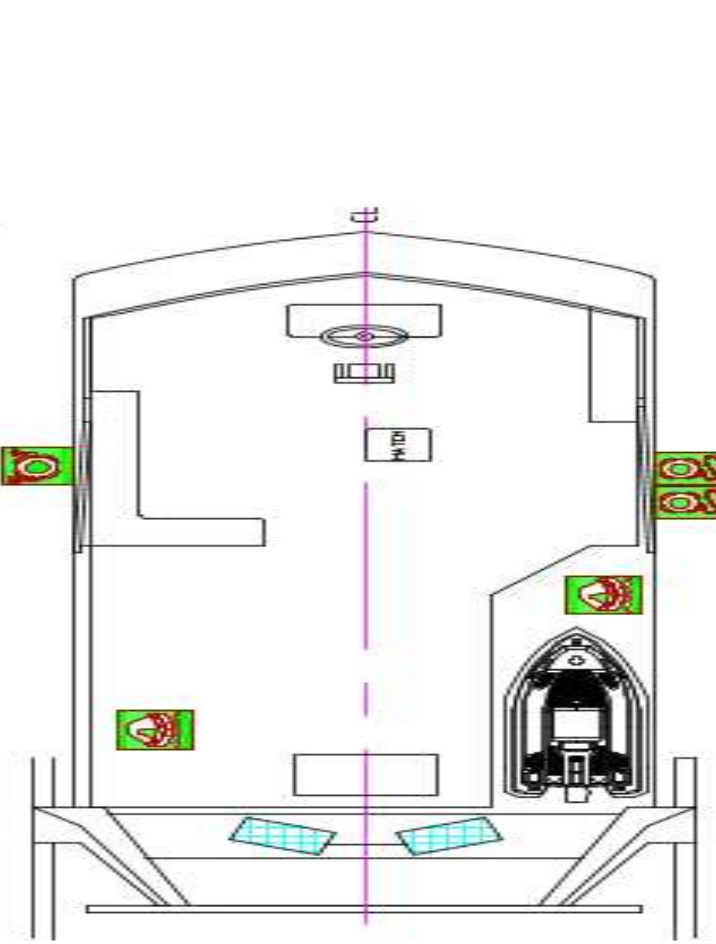
1. Do not leave appliance when plugged in. Unplug from outlet when not in use and before servicing.
2. Do not expose to rain - store indoors.
3. Do not allow to be used as a toy. Close attention is necessary when used by or near children.
4. Use only as described in this manual. Use only Manufacturer's recommended attachments.
5. Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors or dropped into water, return it to a service centre.
6. Do Not pull or carry by cord, use cord as a handle, close a door on cord or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.
7. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
8. Do not handle plug or appliance with wet hands.
9. Do not put any object into openings. Do not use with any openings blocked; keep free of dust, lint, hair and anything that may reduce air flow.
10. Keep hair, loose clothing, fingers and all parts of body away from openings and moving parts.
11. Do not pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
12. Do not use without dust bag and/or filters in place.
13. Turn off all controls before unplugging.
14. Use extra care when cleaning on stairs.
15. Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
16. Do not use your cleaner as a sprayer of flammable liquids such as oil base paints, lacquers, household cleaners, etc.
17. Do not vacuum toxic, carcinogenic, combustible or other hazardous materials such as asbestos, arsenic, barium, beryllium, lead, pesticides or other health endangering materials. Specially designed units are available for these purposes.
18. Do not pick up wood or coal ash, soot, cement, plaster or drywall dust without full cloth filter or collection filter bag in place. These are very fine particles that may pass through the foam and disc filters and affect the performance of the motor or be exhausted back into the air.
19. Do not leave the cord lying on the floor once you have finished the cleaning job. It can become a tripping hazard.
20. Use special care when emptying heavily loaded tanks.
21. To avoid spontaneous combustion, empty tank after each use.
22. The operation of a utility vac can result in foreign objects being blown into eyes, which can result in eye damage. Always wear safety goggles when operating vacuum.
23. **STAY ALERT.** Watch what you are doing and use common sense. Do not use vacuum cleaner when you are tired, distracted or under influence of drugs, alcohol or medication causing diminished control.
24. The appliance is not intended for use by young children or infirmed persons without supervision.
25. The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a responsible person for their safety.
26. Young children should be supervised to ensure that they do not play with the appliance.
27. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

## **SAVE THESE INSTRUCTIONS!**

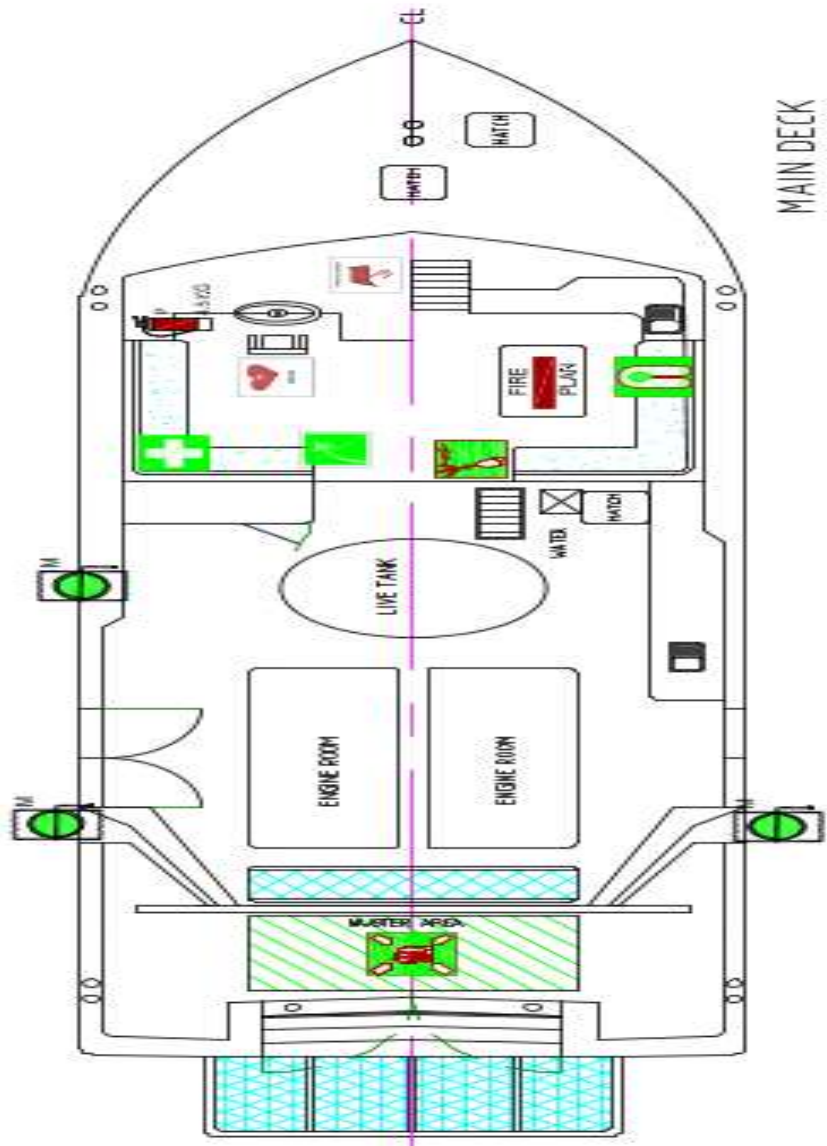
**WARNING - DO NOT LEAVE VACUUM UNATTENDED WHEN IT IS PLUGGED IN AND/OR OPERATING. UNPLUG UNIT WHEN NOT IN USE.**

SHOP-VAC AUSTRALIA PTY LTD

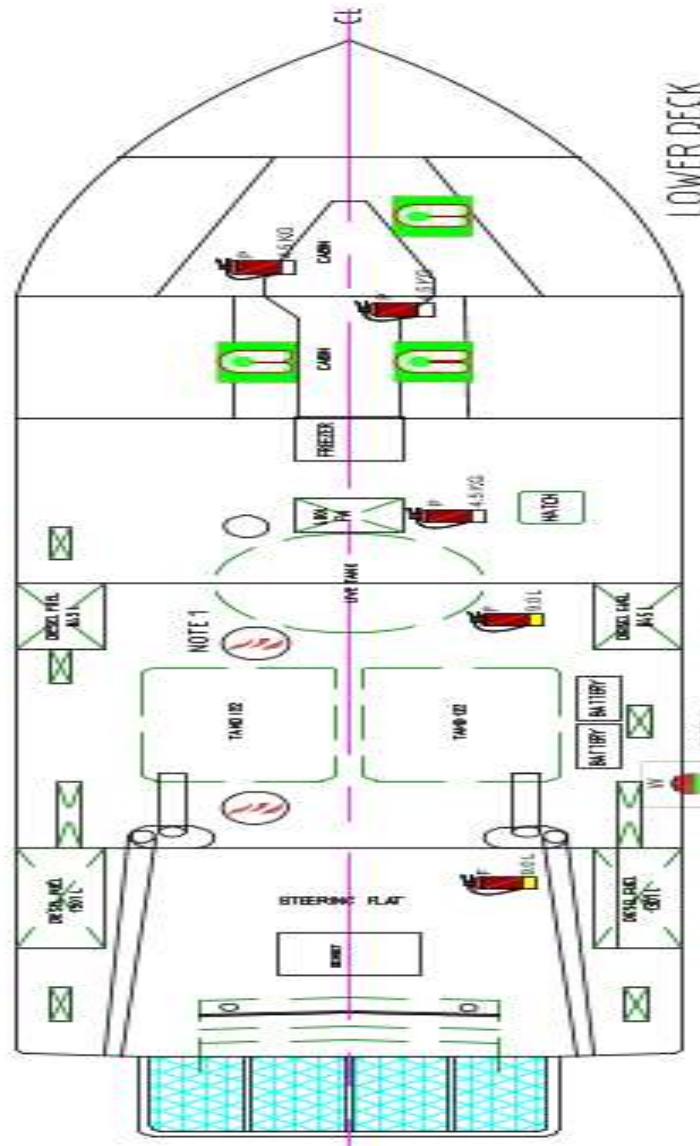
PRINCIPAL PARTICULARS  
 L.O.A 18.3 M  
 BEAM 5.5 M  
 DRAFT 1.6 M



UPPER DECK



MAIN DECK



LOWER DECK

LIFE SAVING EQUIPMENT			
SYM	DESCRIPTION	QTY	LOCATION
	LIFE RAFT (20 PERSONS)	1	UPPER DECK P
	LIFE RAFT (6 PERSONS)	1	UPPER DECK S
	LIFE BUOY WITH LIGHT	1	UPPER DECK P
	LIFE BUOY WITH LINE	2	UPPER DECK S
	LIFEJACKET	1	MAIN DECK - WHEELHOUSE
	LIFEJACKET	3	LOWER DECK
	PYROTECH DISTRESS SIGNALS	1	MAIN DECK - WHEELHOUSE
	EPIRB (EMERGENCY POSITION-INDICATING RADIO BEACON)	1	MAIN DECK - WHEELHOUSE
	FIRST AID KIT	1	MAIN DECK - WHEELHOUSE
	FIRE CONTROL PLAN	1	MAIN DECK - WHEELHOUSE
	DEFIBRILLATOR	1	MAIN DECK - WHEELHOUSE
	FIRE BLANKET	1	MAIN DECK - WHEELHOUSE
	MUSTER AREA (ASSEMBLY STATION)	1	MAIN DECK AFT

FIRE FIGHTING EQUIPMENT			
SYM	DESCRIPTION	QTY	LOCATION
	4.5kg DRY CHEMICAL POWDER FIRE EXTINGUISHER (DCP)	1	MAIN DECK - WHEELHOUSE
	4.5kg DRY CHEMICAL POWDER FIRE EXTINGUISHER (DCP)	3	LOWER DECK - ACCOM.
	9.0L FOAM FIRE EXTINGUISHER	1	STEERING FLAT
	9.0L FOAM FIRE EXTINGUISHER	1	MACHINERY SPACE
	FIRE DAMPER	3	MAIN DECK AFT P&S
	FLAME DETECTOR	2	MACHINERY SPACE SEE (NOTE 1)
	FIXED FIRE EXTINGUISHING BOTTLE	1	MACHINERY SPACE SEE (NOTE 2)

South Metropolitan

HUMBER MARINE ENGINEERING

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 1400 346 129  
 FREMANTLE WA  
 ABN 61 629 105 212

GENERAL NOTES		CLIENT NAME		TITLE	
1.	FIRE DETECTORS TYPE 'C'	DATE	BY	DATE	BY
2.	INSTEAD FIRE SUPPRESSION PRESSURE VESSEL SWG	GR	GR	10/03/16	
		DESIGNED	PN	10/03/16	
		APPROVED	PN		
		CLIENT			
REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
1	17/07/17	CHANGE TO NEW SMT LOGO	GR	PN	PN
0	14/03/16	ISSUED AS-BUILT	GR	PN	PN
A	10/03/16	ISSUED FOR APPROVAL	GR	PN	PN
		APPROVAL	PN	PN	PN
		DESIGNED	PN	PN	PN
		APPROVED	PN	PN	PN
		CLIENT			
REF DWG No	REF DRAWING DESCRIPTION				

TRAINING VESSEL MARITIME IMAGE  
 FIRE & SAFETY PLAN SHT 1 of 1

N.T.S. (SCALE)  
 TV-IMG-090-003

REV 1