

LAMPIRAN



Lampiran1 : Ship's Particular



PT. MERATUS ADVANCE MARITIM

29.5 M TUG BOAT - MDM BONTANG

REGISTRATION AND CLASSIFICATION

Name MDM BONTANG
 Flag/Port of Registry/Off. No. Indonesia/Surabaya/387479
 IMO No./Call Sign 9643142/YD 5205
 Building Yard Bengbu Shenzhen Machinery Co.Ltd
 Keel Laid/Launched December 28th 2010 / China
 Delivery Date/Hull No 1488
 Classification Details ABS/A1 Towing Vessel (E)
 Navigation area Near Coastal Voyage
 Type of Vessel Towing Tug
 Last/Next docking New - building / 2014
 Last/Next Special survey New - building

OPERATION

Owners PT. Meratus Advance Maritime
 Operators PT. Mandiri Advanced Maritime
 Management PT. Mandiri Advanced Maritime

MEASUREMENTS

LOA/LWL/LBP 29.50 m/27.00 m/28.36 m
 Breadth/Depth molded 9.00 m / 4.16 m
 Draft designed/Draft Max. 3.50 m / 3.90 m
 Lightship Draft 1.00 m
 Air Draft 18.00 m. at keel Line

TONNAGE

DWT 121.24
 GRT/NRT 250/75
 Displacement 469.04
 Lightship 347.797

CAPACITIES

Diesel Oil/Lube oil 13 tanks, 250 m3./3 tank 15 m3. (100%)
 Freshwater/Ballast 2 tank, 30 m3./3 tanks, 30 m3.
 Bollard Pull tons

MAIN MACHINERIES

Main Engines 2 x Yanmar 8N21-EN SN.FTF-1023 + FTF-1022
 Total BHP/Turbo Charger 2 x 1325 KW at 800 rpm/MISUBISHI TD13 M 45QRC
 Main Engine Gearbox 2 x Yanmar YX-2000C ratio 3.32:1 , SN.00141+00143
 Propellers KAPLAN Ni-Al-BRONZE
 Steering Gears 1 x Palmarine Electro Hydraulic, Type PEH2502-4PIN
 Hull No. H185 & H186
 Auxiliary Engines 2 x Volvo Penta D7A -T 99KW/1500 RPM
 SN. 1711226207 + 1711226206
 Generators 2x Stamford UC.M274F1, SN. 02274551 / 1
 124 KVA M15-240V/172.5A/3ph/50Hz/1500 RPM
 AC415-220V/50HZ/DC24V
 Electric current RAILKO BEARING
 Stern Tubes

Sewage Plant CKST, Model CKST -15-102-12, SN 1C-09-00
 Bilge Separator Boss 2.2 T/107 Marpol 15 ppm, SN B 20116
 Oil Watch/Alarm BILGMON 448 15 ppm
 Master Name Capt. JUFRI

SPEED AND CONSUMPTION

Max speed (free running) 12 Knots
 Fuel used Marine Gas Oil
 Consumption working/Idle 12.577 / Day
 Endurance days/ NM., Free running

ACCOMMODATION

Berths total 12 persons
 Cabins total 7 nos. (Air conditioned)

DECK EQUIPMENT

Towing winch 1 x Marine Equipment electro hydraulic winch
 Pull 45t at 6 m/min, 13t at 18 m/min. 2 x 60 HP.
 Brake holding 120t.
 ME2, 1 TAWL22C290
 600 m x 44 mm dia (SWR)

Model/Serial No.
 Wire drum capacity
 Towing lines
 Towing hook
 Windlass/Mooring winch

1 x Changsu City Shuangling Marine Fitting Co., Ltd. SWI 45.0 tons
 1 x hydrolic Anchor windlass ME-22U2HWL-WGGW
 Type ME-22U2HWL-WGGW SN ME1111-05. 2 x warping drum
 2 x Anchor chain gyasi 22 mm x 2.1 tons x 0 - 12.0m/min
 2 x Anchor Stockless 570 kg
 2 x Anchor chain, shot link 22 mm U2

Anchor Chain

LIFE SAVING & FIRE FIGHTING

Life rafts, Shanghai Rubber
 Life Budyas/Life Jackets
 Pyrotechnics
 Portable fire Extinguishers
 Breathing Apparatus
 Fireman outfit
 Main Fire Extinguishing
 Fire Pumps
 EEBD
 NAVIGATION AND COMMUNICATION EQUIPMENT
 E-mail (Radio Ink)
 SSB Transceiver
 VHF Marine Transceiver
 Radar, Furuno 193S/1715
 GPS Navigator
 GMDSS Navtex Receiver
 Echo Sounder
 Magnetic Compass
 AIS
 ARFA
 Weather Facsimile Rec.
 Autopilot, Simrad
 EPIRB
 SART
 Speed Log
 Public Address System
 Search Light
 Signal Mast

2 x KHA15 Solid A-pack (74/66) SN.6300
 8 Nos./16 Nos.
 12 x Parachute, 2 x Smoke, 12 x Hand flare 2 x MOB, 4 x Line throwing
 9 x Powder 9Ltr, 1 x Foam 9Ltr, 1 x Foam 45 Liter
 2 set with a spare air cylinder x4
 2 set complete with a spare air cylinder x2
 Water
 3x Main Fire pumps/ 1 x Emergency fire pump
 N/A

mdm.bontang@mdm.co.id
 1 x Furuno HS-2003, SN 109492
 2 x SIMRAD, RS10, 1008T05000177/185
 2 x Type serial no 4377-0536 and 4361-9031
 1 x Furuno GP-32 serial no 6425-9434
 1 x Mc MURDO, IEC81097-6ED2, 0931000886
 1 x FUSO, FEC-609N, E0406812
 1 x SAURA KEIKI, MR-150, V.3922
 1 x SIMRAD AI 50 104015509
 N/A
 1 x FURUNO FAX-408 2718-4563
 1 x SIMRAD AP 50 20214045
 1 x Mc MURDO 406 100-42793
 1 x Mc MURDO IC6913A S4/1140759
 N/A
 1 x HANSHIN HPA-7300 1112081
 2 x Sunlux Marine 300C IP56, 1000W
 Collapsible



395 FT DECK CARGO BARGE - MDM 11
PT.MERATUS ADVANCE MARITIM

REGISTRATION AND CLASSIFICATION

Name	MDM 11
Flag/Port of Registry/Off. No.	Indonesia/Surabaya
Building Yard /Hull No.	Nanjing younghua shipbulding Co.ltd
Date Keel Laid/Launched	9/10/2013 / 07 Jan 2014
Delivery Date	21-Jan-14
Classification Details	ABS +A1, Barge. ID. 09212144 (Dual class BK1)
Last / Next Docking	11-Jan-14 / Jan-17
Last / Next Special Survey	New building /
Navigation area	Unrestricted Service
Type of Vessel	Deck Cargo Barge with Sideboards

OPERATION

Owners	PT.Mandiri Advanced Maritime
Operators	PT.Mandiri Advanced Maritime
Management	PT.Mandiri Advanced Maritime

MEASUREMENTS

LOA	120.00 m
Breadth/Depth molded	30.00 m / 8.60 m
Draft summer/	6.7 m
Lightship Draft	1.0 m
Air draft	12.6 m
Parallel body length	51.986 m.

TONNAGE

DWT	18080.0 T
GRT/NRT	7986/2396 T
Displacement	3288.9 T
Lightship weight	3202.3 T
Deck Load	10 mt/m ²

DECK EQUIPMENT

Windlass	ME Windlass
Model	ME-HWL-46U2
Capacity	20 Tons speed 9
Diesel Engine	Deutz
Model	F6L912
Anchor Cable	1 x chain x 247.5 m. Swivel piece 32 mm.
Anchor	1 x Stockless 3,780 kg.
Sideboards	Hight 5.00 m, 2 escape door in front Removalle ports length 4.5 m, port, stbd and forward.

TOWING EQUIPMENT

Towing Brackets	2 x Smit brackets at the foredeck
Chafing Chains	22 m
Brace Lines	NA
Stretch Line w Thimbels	14 inch x 70 m
Shackles	55 t

Lampiran 2 : Foto Kapal



Lampiran 3 : Injection removal



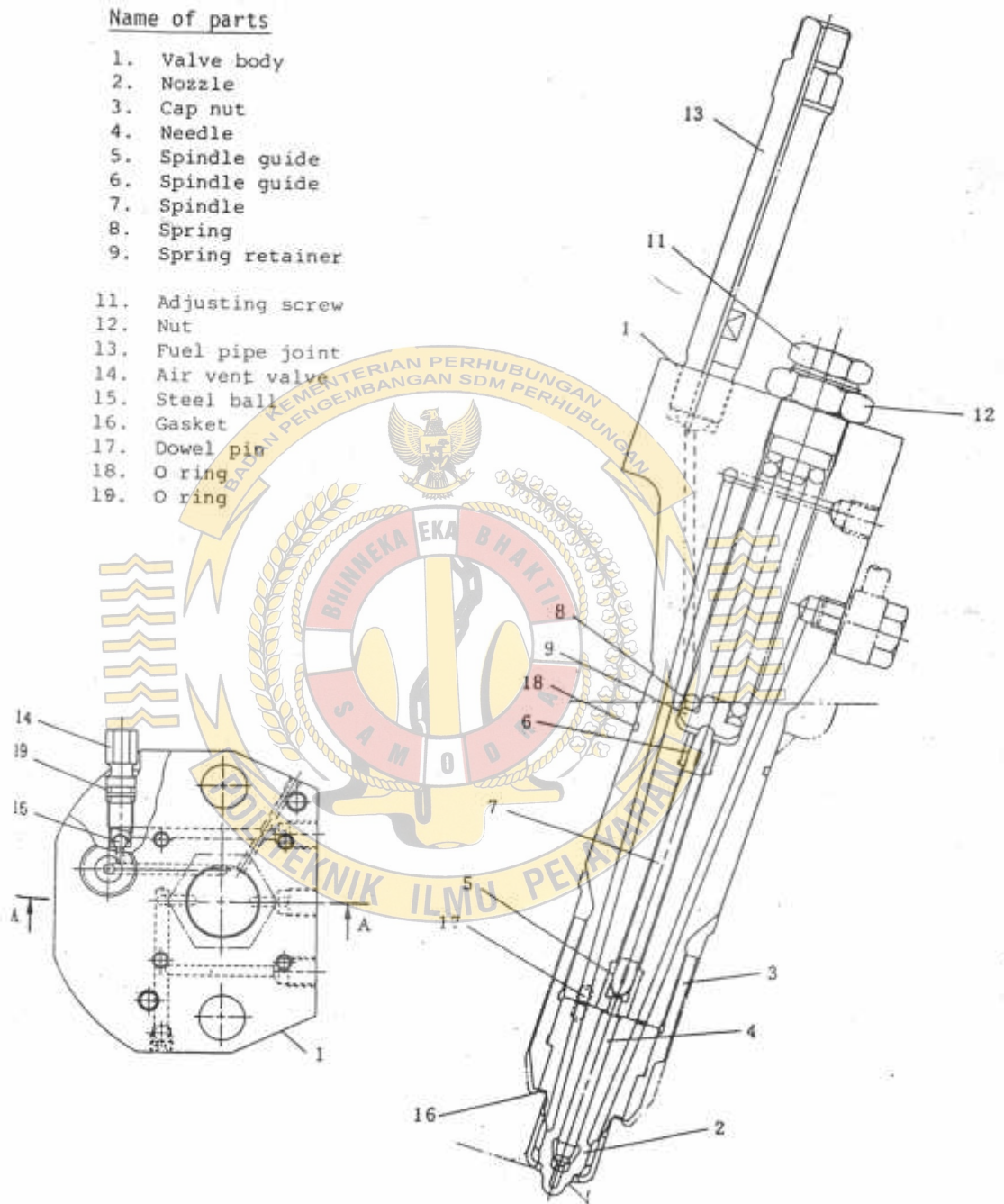
Lampiran 4 :Check degree fly wheel



Lampiran 5 : Check firing order



Lampiran 6: Injector/pengabut. Menjelaskan dari bab III halaman 24



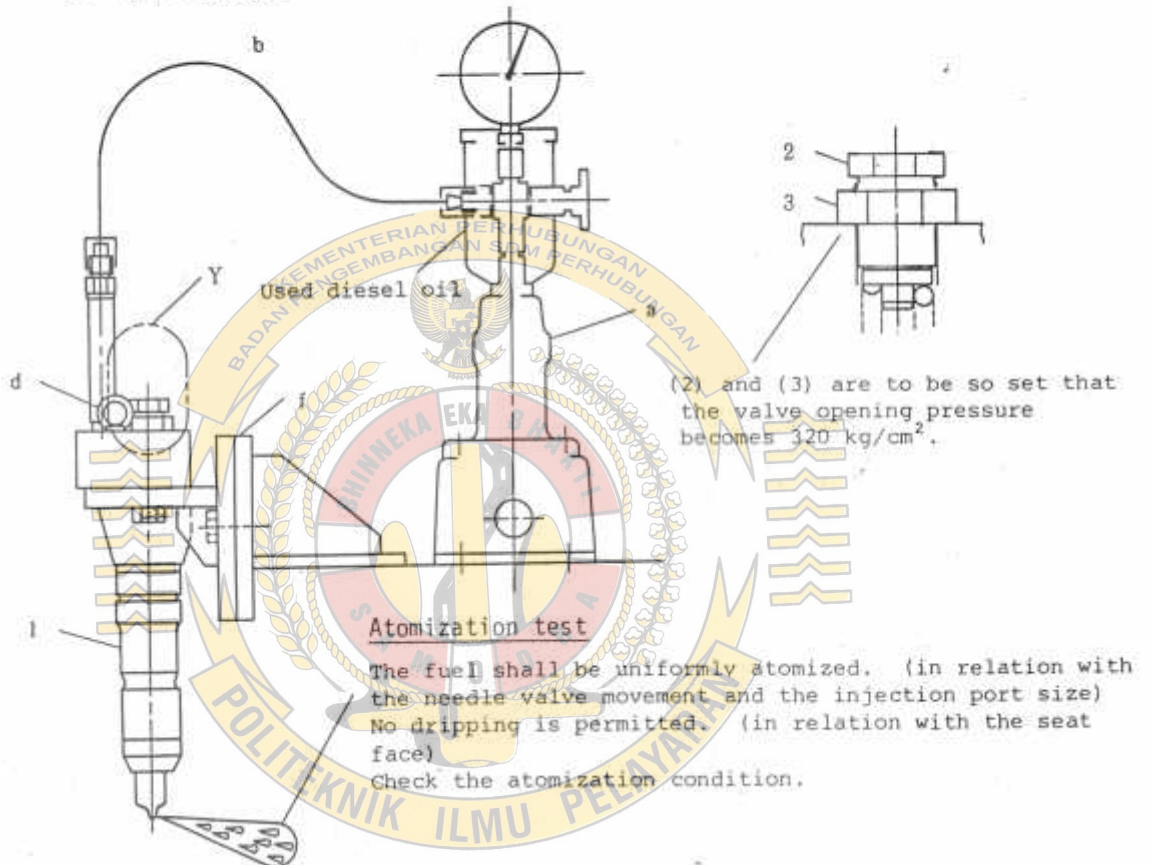
Lampiran 7: Pengetesan tekanan injector menjelaskan bab III halaman 24

Using tools:

- a. Fuel valve testing device
- b. Testing hose
- c. Feeler gauge
- d. Eye bolt
- e. Valve holder

Name of parts:

- 1. Fuel injection valve
- 2. Adjusting screw
- 3. Lock nut



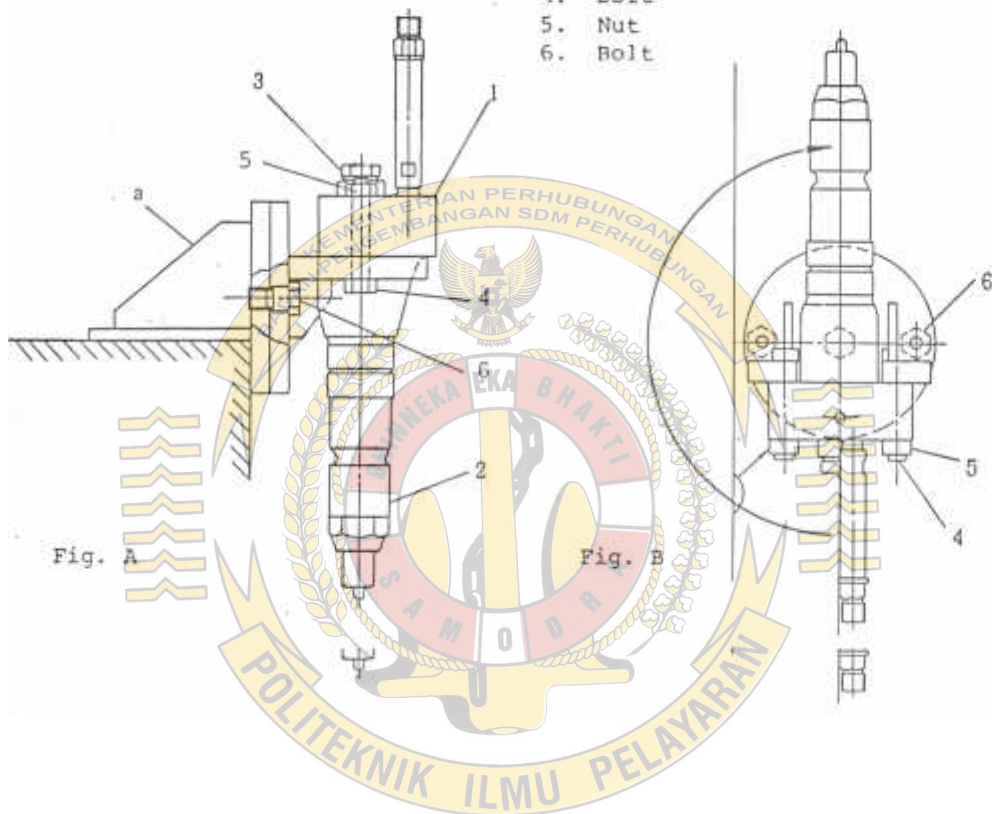
Lampiran 8: Overhaul injector menjelaskan bab III halaman 25

Using tools:

- a. Valve holder
- b. Ring wrench for cap nut
- c. Wrench

Name of parts:

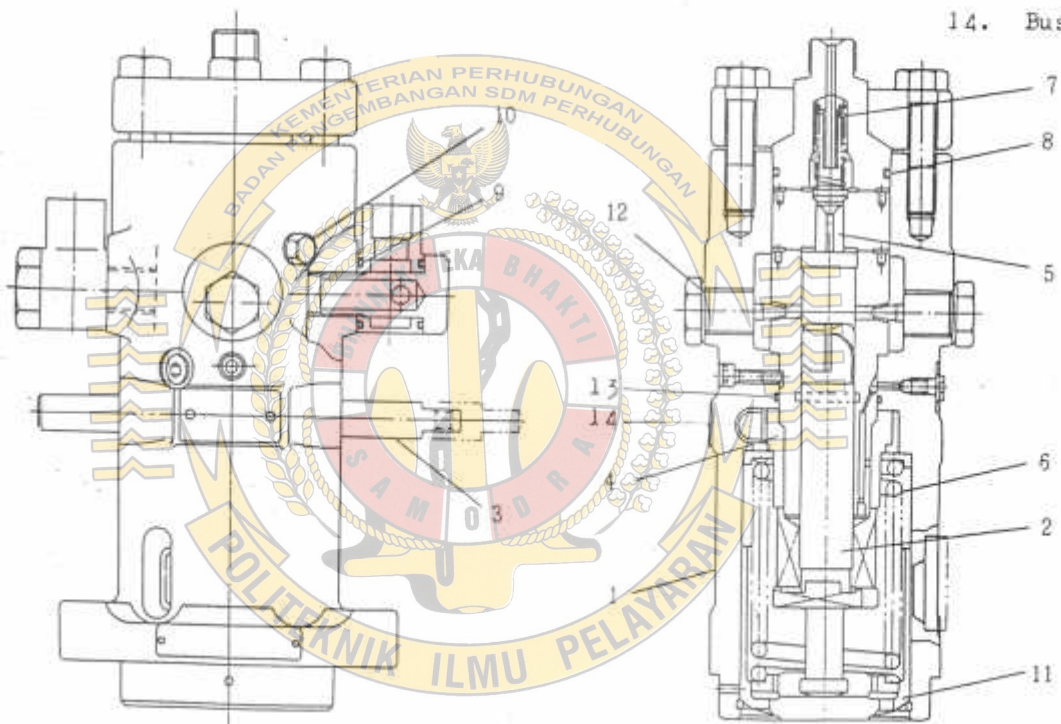
- 1. Fuel injection valve
- 2. Cap nut
- 3. Valve opening pressure adjusting screw
- 4. Bolt
- 5. Nut
- 6. Bolt



Lampiran 9: Pompa pengabut bahan bakar menjelaskan bab III halaman 26

Name of parts:

- | | | |
|-------------------|-------------------|--|
| 1. Housing | 5. Delivery valve | 9. O-ring |
| 2. Plunger | 6. Spring | 10. Set bolt used for air vent as well |
| 3. Control rack | 7. Spring | 11. Plunger guide |
| 4. Control sleeve | 8. O-ring | 12. Gasket |
| | | 13. O-ring |
| | | 14. Bush |



Lampiran 10 : Curriculum Vitae

CURRICULUM VITAE



PERSONAL DETAILS

Name : Eko Cahyono
Place / Date of birth : Blitar, March 10, 1977
Religion : Moslem
Marital Status : Married
Nationality : Indonesian
Address : Jl. Kalimas. Gg. II/ 18Tanjungsari, Sukorejo, Blitar, Jawa Timur, Indonesian
Mobile phone : +62813 4443 9436
E-mail : e_cahyono69@yahoo.com
Passport : A 1145549 Issued: Blitar, Sept 26, 2011
Exp: Sept 26, 2016
Seaman Book : No. B 037015 Issued: Surabaya, Jan 23, 2013
Exp: Jan. 22, 2016

CERTIFICATE OF COMPETENCY

Engine Officer Class IV	No. 6200074399T40501	Jakarta , 23 November 2001
Engine Officer Class III	No. 6200074399T30305	Jakarta, 20 January 2005
Endorsement of ATT.III	No. 6200074399TC0305	Jakarta, 01 October 2009
Engine Officer Class II	No. 6200074399T20309	Jakarta, 22 October 2009
Endorsement of ATT.II	No. 6200074399TB0309	Jakarta, 31 December 2016

CERTIFICATE OF PROFICIENCY

SERTIFIKAT	NO. SERTIFIKAT	DISAHKAN
Basic Safety Training	No. 6200074399010514	Surabaya, 22 May 2014
Prof.Survival Craft and Rescue Boats	No. 6200074399040514	Surabaya, 28 May 2014
Advanced Fire Fighting	No. 6200074399060514	Surabaya, 26 May 2014
Medical First Aid	No. 6200074399070514	Surabaya, 24 May 2014
Medical Care on Board Ship	No. 6200074399080315	Semarang, 19 Oct 2015
BOCT	No. 6200074399390315	Semarang, 10 Nov 2015
AOT	No. 6200074399100309	Semarang, 18 Nov 2015
Ship Security Officer	No. 6200074399240315	Semarang, 19 Oct 2015
ISM-Code	No. 14.141/ISM/PIP.SMG/VIII/02	Semarang, 26 August 2002
ERM	No. 6200074399270514	Surabaya, 05 Nov 2014
BLGT	No. 6200074399120712	Semarang, 24 Nov 2015
ISO 9001-2008	Cert No 2003-1-0561	Pertamina, 05 February 2012
Tbosiet	Cert No : Tbosiet.00295/OTM/2013	Jkt, Omega, 14 July 2013
Huet	Cert No : Huet . 00305/OTM/ 2013	Jkt, Omega, 18 July 2013

SEA SERVICE OF RECORD

Name of Vessel	Type	Company	Rank	Engine	HP	Duration
MT. Samudera 3	Tanker	PT. Dewi Sari Utama	Cadet	Detroid	2200	05.08.97 – 02.02.99
KM. Sejahtera	Cargo	PT. SBA/ Sby	3rd/eng	Hanshin	2450	20.03.99 – 03.02.00
MT.Rahmat I	Tanker	PT. PHU/ Jkt	1st/eng	Hanshin	2850	15.05.00 – 15.10.00
MT.Borneo II	Tanker	PT. BSP/ Jkt	1st/eng	Kobe.Jpn	2650	09.11.01 – 25.01.02
MT.Marina. 88	Tanker	East marine Pte Ltd	1st/eng	Hanshin	2850	31.01.02 – 09.09.02
TB. SDS. 32	Tug Boat	PT. Wintermar	1st/eng	Mitsubishi	2x1950	22.11.02 – 06.04.04
TB. Nancy 11	Tug Boat	MLC. Marine. Pte.Ltd	1st/eng	Yanmar	2x2100	22.02.05 – 23.08.05
SV. Interprise	AHT	Pan Ocean Marine	Ch/eng	Daihatsu	2x2050	29.11.05 – 13.08.08
SV.Permina no 29	AHTS	Pertamina (Persero)	1st/eng	Nigata	2x2100	23.08.09 – 06.12.09
SV.Permina no 34	AHTS	Pertamina (Persero)	1st/eng	Catterpillar	2x3030	18.12.09 – 16.02.10
Lct.Setia Mandiri	Landing	PT.Smm	Ch/eng	Yanmar	2x550	12.03.10 – 15.01.12
MT.Buthane	Lpg	PT.Kapuas Jaya Line	Ch/eng	Yanmar	2550	06.02.12 – 01.07.12
MT.SM Mandiri	Tanker	PT.Binau Lines	Ch/eng	Yanmar	2x550	18.07.12 – 12.01.13
TB.MdmBerau	Tug Boat	MeratusAdvMaritim	Ch/eng	Yanmar	2x1300	13.02.14 – 18.10.14
Mv.Mdmbontang	Tug Boat	MeratusAdvMaritim	Ch/eng	Yanmar	2x1800	10.11.14 – 21.08.15

Yours faithfully



(Eko Cahyono)