

LAMPIRAN

- Kadet : Selamat Pagi bas
- Masinis 3 : Iya, Selamat Pagi Det
- Kadet : Mohon izin, Bass, apakah saya diperbolehkan untuk bertanya mengenai kejadian kotornya *intercooler* dan pengaruhnya terhadap performa *auxiliary engine*?
- Masinis 3 : Iya det boleh, silahkan
- Kadet : Mohon izin, Bass. Apa saja dampak yang paling sering Bass temui ketika *intercooler* berada dalam kondisi kotor?
- Masinis 3 : Mesin menjadi cepat panas, suhu gas buang naik, dan konsumsi bahan bakar meningkat.
- Kadet : Seberapa sering *intercooler* dibersihkan di kapal ini?
- Masinis 3 : *Intercooler* biasanya dibersihkan setiap 1.000 jam operasi atau ketika performa mesin mulai menurun.
- Kadet : Untuk tanda-tanda bahwa *intercooler* sudah kotor bass?
- Masinis 3 : Biasanya Suhu udara masuk tinggi, tekanan udara menurun, dan RPM mesin tidak stabil.
- Kadet : Apakah *intercooler* yang kotor mempengaruhi pembakaran?
- Masinis 3 : Ya, udara masuk jadi panas, pembakaran tidak sempurna, dan mesin mengeluarkan asap hitam.
- Kadet : Bagaimana pengaruh *intercooler* kotor terhadap efisiensi mesin?
- Masinis 3 : Efisiensi turun karena udara masuk tidak padat, pembakaran lemah, dan bahan bakar lebih boros.
- Kadet : Apakah ada peningkatan suhu gas buang saat *intercooler* kotor?
- Masinis 3 : Iya, bisa mencapai 400–450°C, padahal biasanya di bawah 380°C.
- Kadet : Apakah *intercooler* kotor bisa menyebabkan kerusakan komponen lain?

Masinis 3 : Ya, karena pembakaran tidak sempurna bisa memicu carbon deposit dan mempercepat keausan komponen seperti piston dan *cylinder liner*.

Kadet : Bagaimana perawatan rutin *intercooler* dilakukan?

Masinis 3 : Dibongkar dan dibersihkan menggunakan *chemical cleaner* dan air bertekanan tinggi

Kadet : Mohon izin Bass, Terimakasih untuk penjelasan dan jawabannya bass

Masinis 3 : Sama-sama det, semoga bermanfaat untuk kamu yaa

Lampiran 1 Crew List

IMO convention on facilitation of International Maritime Traffic

IMO FAL Form 5
S.L. Customs - Prev 6

IMO CREW LIST

☐ Departure
☒ Arrival

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1. Name Of Ship : MV. PANCARAN LIBERTY			2. Port of Arrival :				3. Date Of Arrival :						
4. Nationality Of Ship : INDONESIA			5. Departure Port From :				6. Nature, No. of identity document :						
7 No.	8a. Full Name	8b. Sex	9 Rank	10 Certificate of Competency	11 Nationality	12 Date and Place of Birth	6a. Seaman Book Expire Date	6b. Passport Expire Date	13 Place of Joined	14 Date On Board			
1	RUDI SYAFRA	M	Master	Class I	Indonesian	25-12-1980 Jakarta	F 295900 19-11-2024	E 1089668 03-10-2027	Salara Ibe, Merak	1 Apr 2024			
2	ASHIM SAIFUDDIN	M	Chief Off	Class II	Indonesian	23-06-1993 Batam	G 038693 05-07-2024	X 1063106 16-01-2033	Morosi, Sulawesi	23 Jan 2024			
3	SPEMBRI WANSAGA	M	2nd Off	Class II	Indonesian	24-09-1991 Awi	F 220119 14-02-2026	E 5597725 05-03-2030	Salara Ibe, Merak	1 Apr 2024			
4	AGUNG WIGUNA	M	3rd Off	Class II	Indonesian	07-09-1994 Lebak	G139069 22-02-2026	C 7310120 08-09-2025	Salara Ibe, Merak	1 Apr 2023			
5	JULI HIRYANA	M	Chief Eng	Class I	Indonesian	11-07-1974 Purwakarta	F 343522 05-05-2025	C 6789168 14-04-2025	Tanjung Uasong, Batam	27 Jul 2023			
6	SAIFUL BAHRI	M	2nd Eng	Class II	Indonesian	28-12-1991 Tegal	F 161484 06-08-2025	E 1801186 09-01-2033	Muara Panti, Kalimantan	16 Dec 2023			
7	FEBRY EKO ROMADHON	M	3rd Eng	Class II	Indonesian	09-02-1995 Klaten	F 209606 16-04-2026	E 0792379 09-12-2032	Turakan, North Kalimantan	20 Aug 2023			
8	MARZUKI IBRAHIM	M	4th Eng	Class III	Indonesian	13-01-1993 MAGELANG	F 241993 19-07-2024	C 3752617 03-07-2024	Morosi, Sulawesi	23 Jan 2024			
9	DANY HERMANTO	M	Electrician	ETR	Indonesian	31-01-1985 Surabaya	F 287748 21-10-2024	C 7205720 18-06-2026	Muara Panti, Kalimantan	16 Dec 2023			
10	ARSIN PAKARUDDIN	M	Bosun	Able Deck	Indonesian	28-11-1973 Pollo Tondok	F 278949 24-09-2024	C 9750064 02-12-2032	Tanjung Uasong, Batam	22 Jul 2023			
11	NUR HERUYANTO SETIYADI	M	A/B 1	Able Deck	Indonesian	24-09-1978 Jakarta	H 065132 08-08-2025	C 8100358 30-09-2026	Morosi, Sulawesi	24 Nov 2023			
12	HOSAEMI	M	A/B 2	Able Deck	Indonesian	15-04-1970 Barisan	G 040581 23-12-2025	C 7386648 19-10-2025	Bojonegara, Banten	16 Feb 2024			
13	ANDI FAISAL	M	A/B 3	Able Deck	Indonesian	13-05-1974 Jakarta	F 179567 19-10-2025	E 5221005 11-10-2033	Salara Ibe, Merak	1 Apr 2024			
14	SAMIDIN	M	O/S	Ratting	Indonesian	26-02-1977 Bangkalan	I 011167 28-12-2025	E 3994324 16-06-2033	Tabonono, Kalimantan	13 Nov 2023			
15	ARIYANTO	M	Fitter	Able Engine	Indonesian	07-10-1984 Kebumen	F 312961 20-10-2026	C 7448986 16-01-2025	Salara Ibe, Merak	1 Apr 2024			
16	AKHYAR	M	Older 1	Able Engine	Indonesian	17-05-1984 Dabo Singkep	F 267042 28-08-2024	C 7886278 07-09-2026	Bojonegara, Banten	21 Feb 2024			
17	NOVIYANA	M	Older 2	Able Engine	Indonesian	05-11-1976 Purwakarta	F 220124 20-02-2026	C 2876331 04-01-2024	Salara, Indonesia	19 Oct 2023			
18	ADI SUKAMSO	M	Older 3	Able Engine	Indonesian	15-07-1979 Sragen	I 005750 06-01-2026	C 3674453 10-04-2024	Salara, Indonesia	19 Oct 2023			
19	SUGENG HARYANTO	M	COOK	Ratting	Indonesian	04-03-1978 Jakarta	H 064563 26-07-2026	C 8101049 13-10-2026	Salara, Banten	12 May 2024			
20	OLO MARTUMBUR SAMOSIR	M	Mess Man	Ratting	Indonesian	09-06-2002 Cinta Damai	I 008976 28-12-2025	C 2705687 06-02-2033	Bojonegara, Banten	21 Feb 2024			
21	PANDHU TEGAR SETIADJI	M	Cadet Deck	But	Indonesian	12-01-2002 Banyuwangi	F 190321 21-02-2026	E 3110698 04-07-2033	Tanjung Uasong, Batam	5 Jul 2023			
22	RACHMAN RISKY SAPUTRA	M	Cadet Engine	But	Indonesian	12-12-2002 Kabupaten Semarang	H 055476 16-02-2026	E 2792945 10-03-2033	Tanjung Uasong, Batam	5 Jul 2023			



MASTER OF MV. PANCARAN LIBERTY

Lampiran 2 Ships Particulars

SHIP'S PARTICULARS



SHIP'S NAME : **PANCARAN LIBERTY**
 PORT OF REGISTRY : JAKARTA
 TYPE OF SHIP : BULK CARRIER
 IMO NUMBER : 9611022
 CALL SIGN : YDBD3
 I.D. OF INMARSAT : VSAT: +882 1665410023

OFFICIAL NUMBER : 397510
 MMSI NO. : 525121051
 EMAIL ADDRESS : pancaranliberty@pancaran.sailink.id
 INMARSAT C TLX : 456698410

OWNER : PANCARAN KARYA SHIPPING
 OPERATOR : DESTINASI MARITIM INDONESIA
 TIME CHARTERER :
 BUILDER : TIANJIN XINGANG SHIPBUILDING HEAVY INDUSTRY CO. LTD
 DELIVERY DATE : 26TH JUNE 2013
 CLASS : 100A1 Bulk Carrier, CSR, BC-A, Hold 2, 4 May be empty, ESP, L1, ShipRight (CM, ACS(B), *IWS, GRAB(20), ECO(IHM, BWT) LMC UMS
 Descriptive notes: ShipRight (SCM, BWMP(S+F), Part Higher tensile steels
 Green Passport

CLASSIFICATION : Lloyd's Register
 P&I CLUB : THE STANDART
 L.O.A : 189.99 M L.B.P : 185.00 M
 BREADTH : 32.26 M DEPTH : 18.10 M
 YARD HULL NO. : NB003-5

	DRAFT (M)	DISPLACEMENT (MT)	DEADWEIGHT (MT)
TROPICAL	13.118	69,507	58,261
SUMMER	12.850	67,933	56,687
WINTER	12.852	66,362	55,116

LIGHT SHIP : 11,246 MT
 F.W.A : 289 MM
 T.P.C. SUMMER : 58.7 MT

	REGISTERED	SUEZ CANAL
CROSS TONNAGE	33,456	34,681.53
NET TONNAGE	19,333	31,343.97

CARGO HOLD	Cu. M.	Max. Cargo Mass	Local Loading on Tank Top	Hatch Coaming Size
NO 1	12,599.70	17460 MT	15 Ts / Sq Mtr	18.834 x 18.234 Mtrs
NO 2	15,963.50	15964 MT	18 Ts / Sq Mtr	21.294 x 18.234 Mtrs
NO 3	14,185.20	19650 MT	25 Ts / Sq Mtr	21.294 x 18.234 Mtrs
NO 4	15,963.50	15964 MT	18 Ts / Sq Mtr	21.294 x 18.234 Mtrs
NO 5	13,519.60	18730 MT	25 Ts / Sq Mtr	21.294 x 18.234 Mtrs
TOTAL	72,231.50			

W.B.T. CAPACITY : 16477.4 Cubic Meters
 CARGO HOLD NO. 3 : 14185.2 Cubic Meters
 F.O.T : 2299.2 Cubic Meters
 D.O.T : 206.3 Cubic Meters
 LUB OILS : 124.4 Cu. M (INCLUDING SUMP TANK)
 FRESH WATER : 515.8 Cubic Meters
 MAIN ENGINE : MAN-B&W 6850MC- C8 Tier II
 M.C.R 127.0 RPM x 9960 KW
 MAX SPEED : 16.0 Knots
 MAX HEIGHT : 47.0 Meters
 SERVICE SPEED : 47.0 Meters
 SWL CRANE : 35 T
 CAPACITY GRAB : 18 T



CAPT. RUDI SYAFRA

Lampiran 3 Cadet On Board



Lampiran 4 Cadet And Crew

