

Private & Confidential



HONG LAM MARINE

***Operationalising Methanol
Bunkering
“Operational Prospects”***

23 Oct 2023

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Hong Lam Marine

Hong Lam Marine Pte Ltd established in 1981

Company Fleet

- Technical Management
 - 8 x Regional Vessels, carrying Chemicals/Products/Asphalt
 - 2 x Jet Fuel Tankers, supplying Jet Fuel to Cafhi Terminal
 - 3 x Lube Oil Tankers, employed in the port limit and supplying the marine lubricants.
 - 15 x HSFO/VLSFO Bunker Tankers, employed in the Domestic Market, incl Tanjung Pelepas etc.
 - All the managed ships are mainly chartered to Major Oil Companies , Traders, independents and overseas interests.
 - Mainly operating in southeast Asia region and east of Suez up to Far East, Japan, Korea and New Zealand.

Our mission is to provide good value for clients and to be recognized for its safe operations and quality service





Operations

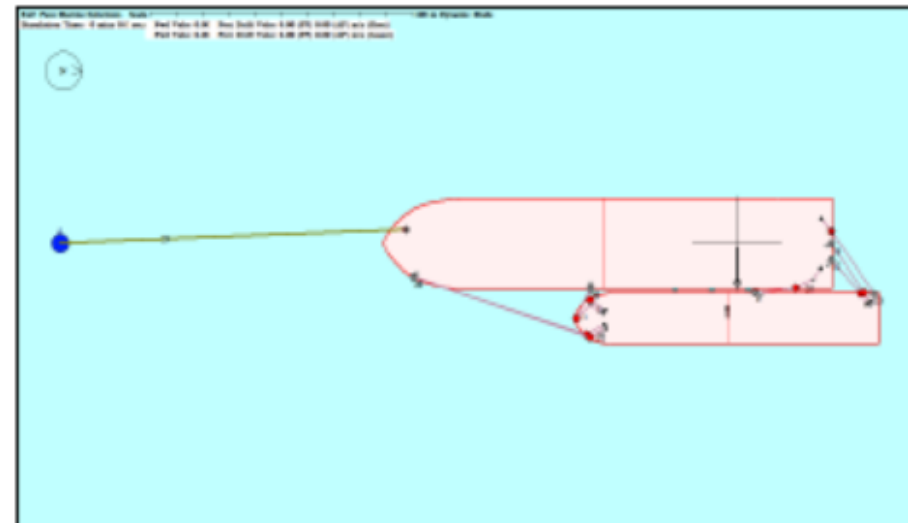
- *Divided into Six Segments*
 - 1. Approach & Mooring**
 - 2. Connection & Testing**
 - 3. Bunkering Operation**
 - 4. Draining, Purging & Disconnection**
 - 5. Unmooring and Departure**
 - 6. Others –**
 - Crew Qualification**
 - Methanol Specific Safety Items**



Approaching and Mooring

Arrangement for 9944546 with Agility SS at Raffles Petroleum anchorage

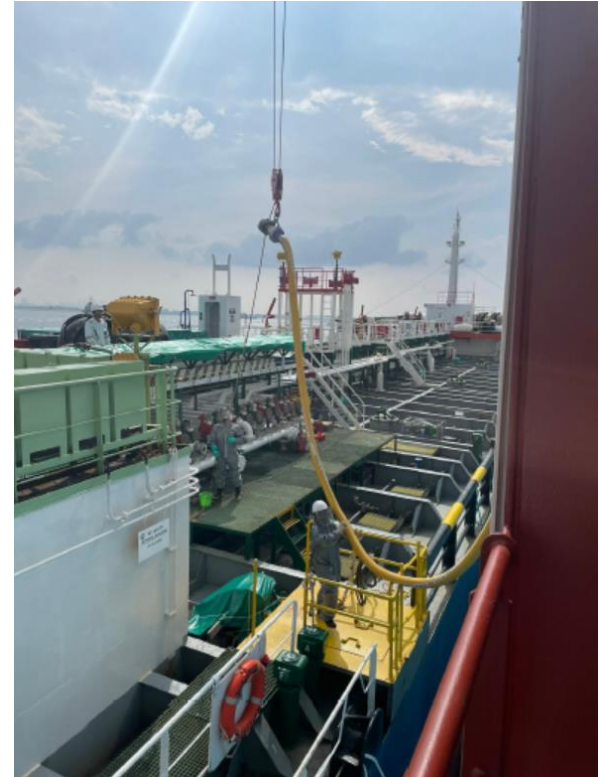
- ***Mooring compatibility study was carried out***
- ***PSA Pilot was engaged***
- ***Tugs (2 x tug) were engaged***
- ***Ocean going Master was in Command***
- ***Bunker Tanker Master (Module-II) was on board.***





Connection and Testing

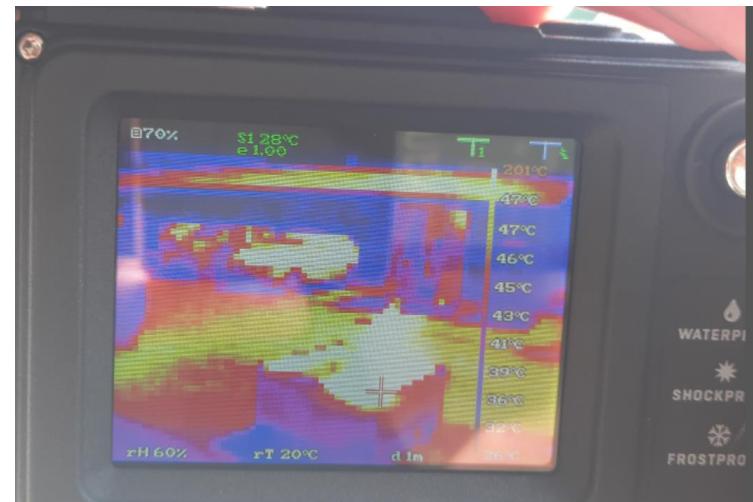
- *Proper PPE, Full protection chemical suit, was used for the crew engaged in Hose connection*
- *4-inch Cargo and Vapor hoses were connected*
- *N₂ from the receiving vessel was used to carry out line test (test Pressure was 5 bar)*
- *Bunker vessel was provided with N₂ bottle as back up.*





Bunkering Operations

- *Bunker safety checklist was completed (Customized for Methanol Bunkering)*
- *Cargo pump started with slow rate. (Cargo Tank 4P, Framo Pump)*
- *Vapor return to same cargo tank 4P.*
- *The Bunker delivery rate was increased, the vapor pressure in the tank was also increased.*
- *Open cargo tank 4S for vapor to return. Vapor rate is 1:1.4 times*
- *Monitoring of temperature through Thermal camera*
- *Closed sampling was carried out by surveyor*





Draining, Purging and Disconnection

- *Completed pumping*
- *Surveyor was engaged for quantity measurement*
- *N₂ blow from the receiving vessel to bunker tanker for line clearing*
- *Closed manifold valves.*
- *Release the pressure to the tank.*
- *Crew with proper PPE disconnect the hoses.*



Unmooring and Departure

- *Post Bunkering documentation completed.*
- *BDN signed*
- *Pilot and Tug was used for cast off from the receiving vessel.*





Others- Crew Qualification

- *Crew was qualified and certified for chemical tanker (IMO type –II) operation.*
- *Crew underwent Methanol Fire fighting training by COSEM*





Methanol Specific Safety Equipment

- *Vessel was provided with below safety equipment's.*
- *Thermal Camera*
- *Methanol Gas Detector*
- *Chemical Suit*
- *Lighting Rod*
- *Antidotes (Ethanol)*



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