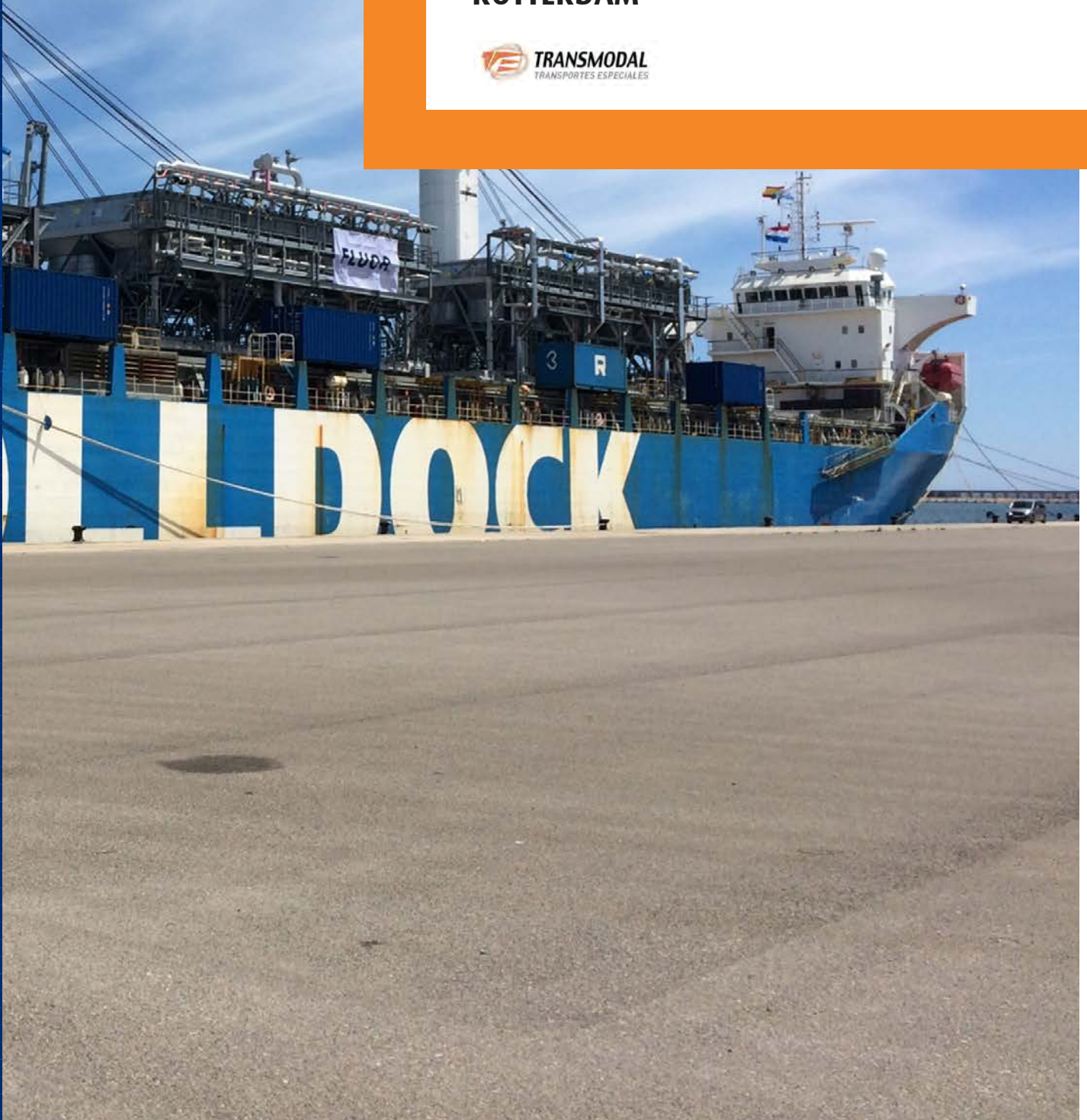


**MALIN  
ABRAM**

**CONTRACT  
RECORD** M287-CR-01

**MARINE ASSURANCE SURVEY, TARRAGONA &  
ROTTERDAM**



# CONTRACT RECORD M287

- **Scope:** To provide marine assurance surveys for the transportation of refinery modules. The refinery modules were fabricated by Schwartz-Hautmont for Fluor as part of the Exxon Mobile expansion project at the Esso Refinery in Rotterdam, Netherlands.

Malin Abram was tasked with reviewing and commenting on technical transportation documents produced by the various subcontractors involved. This included reviews of crane lifting procedures, trailer operations, ro-ro loadout and load-in operations from heavy lift ships and barges.

Malin Abram was also required to attend boat loading and offloading operations in Tarragona, Spain and Rotterdam, Netherlands respectively. During operations Malin Abram was tasked with ensuring that the contractors followed their method statements thus ensuring that the cargo was loaded and secured correctly.

- **Client:** Transmodal
- **Vessels:** MV Tasman (Shipment 1)  
Rolldock Sun (Shipments 2 and 3)
- **Cargo:** 19 off modules ranging in size from 16 Te to 440 Te over 3 off shipments
- **Location:** Tarragona, Rotterdam



**Figures:**

- Rolldock Sun loaded with modules [1]
- Loading of MV Tasman in Tarragona [2]
- Ro-Ro of module at Tarragona [3]
- Barge Ro-Ro load-in at Rotterdam [4]
- Typical brace type sea fastening [5]