



# SILVER STAR | CRYSTAL | BIRD

## Reefers

- Installation of SCR equipment: urea tanks, urea dosing unit, SCR reactor, control panel, air compressor
- Rebuilding of existing exhaust pipes to provide space for new equipment like the SCR reactor
- Manufacturing and installation of a new exhaust bypass line
- Manufacturing and installation of exhaust lines and thermal insulation
- Manufacturing and installation of urea pipelines connecting tanks, dosing unit and mixing pipe into one urea injection system
- Electrical works: new cable pulling for power up and control of the new system



# TRANS HAV | TRANS SOL

Ro-Ro vessels

- Foundation for the rotor sails
- Battery system installation | Variable HZ drive
- SCR system installation + Scrubber installation
- Propeller optimization
- Power management system & IAS replacement
- Bridge equipment replacement
- Main engine upgrades
- Weather deck cover
- Urea tank



# NOTUS

SOV equipped with DP2, SMST W2W systems

- Installation of the tank top inside the mud tanks and FO tanks
- Installation of additional remote-control valves in ER to operate the bilge system from ECR/ bridge
- By installing a tank top inside the FO tanks, each was split into two separate compartments, effectively doubling the number of fuel tanks. As a result, all supply systems were also duplicated.
- Installation of the SMST Offshore 3D Crane with Motion Compensated SWL 5t, together with SMST technicians
- Modification of the mud tanks into FW BW tanks, and connection to the FW cargo system
- Increased amount of lifesaving equipment
- Relocation of the fire pumps





# SIMA

## DP2 offshore installation vessel

- Over 11 tons of steel replaced
- ME and bow thruster mechanical maintenance
- Insulation work
- Large-scale piping installations
- Full hull cleaning and painting
- Routine jobs



# LAUNKALNE

Bulk carrier

- VentoFoil sails installation
- Routine DD jobs

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# ZINA

## Bulk carrier for transshipment operations

- 313,000 kg of steel structures fabricated
- 14,230 meters of cables laid and fastened
- 6,900 kg of pipes for the redesigned systems fitted
- Installation of twist locks for two container-type Technological Diesel Generators on the upper deck
- Disassembly of existing shipboard cranes (4 pcs)
- Relocation of the transverse coamings of cargo holds No. 2 and No. 4
- Modernisation of 2 hatch covers
- Installation and connection of additional fans for the thruster room, cooling pumps for the thruster electric motor and thruster frequency converter;
- Installation of barbettes and bulkhead reinforcements for Liebherr CBG360 cranes
- Installation of a bow thruster and thruster tunnel
- Installation of an additional mooring winch
- Installation of foundations for fenders and grabs





# CORAL FRASERI

Ethylene carrier | LNG bunker vessel

- Design by the in-house D&E bureau, manufacturing, and installation of a 30-ton cargo operation platform
- Execution of complex condenser dismounting tasks
- Crane system modifications
- Accommodation upgrades
- Tank measurement radar installation
- Auxiliary engine dismounting and mounting



# CORAL PATULA

Ethylene carrier

- VentoFoil sails installation
- Routine DD jobs





# Marcus G. Langseth

Research vessel

- Steel renewal inside tanks and shell plating
- Surface treatment of hull, decks, superstructure, tanks
- Overhaul of shipside valves
- Rudders and stern tube seals repair
- Bow thruster controller renewal
- ER fans renewal and bilge wells replacement
- Renewal of gun rails
- Major piping works
- Other DD routine jobs



# GRACE

## Cable recovery vessel

- 5 cable tanks: manufacturing and installation | 72t
- Cable walkway: manufacturing and installation | 19t
- Cable roller: manufacturing and installation | 4t
- Bow chute: manufacturing and installation | 4t
- Rebuilding of the cargo hold ventilation casing and forward mast. Relocation and rebuilding of forward mooring appliances
- Installation of cable recovery winch and tensi
- Installation of 10-40 ft containers (7)



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# VINA

## Special purpose vessel

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- Steel renewal inside tanks and shell plating
- Hull deck crane, inside ballast and fuel tanks treatment
- Service of sewage treatment plant
- Repair of pipelines, hatch covers, rubber renewal
- Maintenance of the switchboard with its circuit breakers.
- Maintenance of generators
- Service of life- saving appliances
- Radio survey





## **ARCTIC** (ex. WILSON AEGEAN)

Offshore supply vessel

- Change of the class
- ME repair (3 pcs) + spare parts supply
- Kongsberg automation system repair
- Siemens frequency convertors` repair
- Electrical motors and pumps` repair
- Radio navigation survey
- Safety and fire fighting equipment maintenance



# BLUEFORT

Offshore supply vessel

- Flume tank manufacturing and installation
- U-shape tank modification and reinforcement
- Boat landing platform manufacturing and installation





# Drill ship

for deep water survey and research

- Overhaul of 4 ME and azimuth thrusters
- Complete renovation of a main deck (panels)
- Replacement of:
  - over 100 t of steel
  - dozens of electrical motors and pumps
- Renovation of accommodation module
- Installation of a seismic (drilling) winch
- Project required 150 000 man hours





## Research | Survey vessel

- 5y class survey
- Installation of the seismic research equipment
- Technological equipment repair
- ME and steering complex repair
- Hull cleaning and painting



# POLAR PIONEER

Crab catcher | Fishing vessel

- Project and project documentation development
- Superstructure production and installation
- Renewed pipeline systems
- Repair of engines
- Electrical motors and pumps` repair
- Interior works
- Installation of a bow thruster



# MAIRONIS

## Fish factory

- Main engine renewal including auxiliary and propulsion system modernization and alignment
- Manufacturing and installation of RSW tanks
- Full retrofitting of fish factory
- Upgrade and installation of automatization and electrical components
- Class renewal

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# TROMSBAS

Fishing vessel

- Ice belt installation (140 t)
- High tensile plates installation
- Modernization of bunker tanks
- Modernization of a fuel piping system



# STOLT SANDPIPER

Oil/ chemical tanker

- Class renewal
- Piping pre- production ~ 270 m
- Deck compartment pre- production ~ 3500kg
- Deck compartment outfitting and installation
- BWTS installation and commisioning

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# ANNELIES ILENA

Trawler | Fish factory

- Installation of scrubbers, 2 pcs
- Superstructure for surimi factory production and installation
- Modification of thermal oil system
- Tail shafts survey
- General repair works