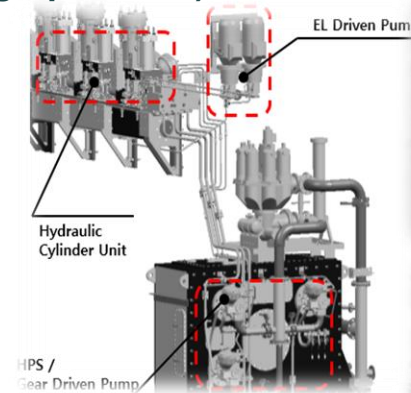


11<sup>th</sup> December 2017

## ME Engine Service

### 1. Hydraulic system (Including Spare Kits)

- ✓ Overhaul and inspection of safety valves, and set-up pressure.
- ✓ Replacement or cleaning of control valves on HCU and HPS
- ✓ Replace of membrane and nitrogen re-charge on accumulators
- ✓ Replace of hydraulic hose
- ✓ Leakage test for hydraulic system, and build-up time check for start-up pump
- ✓ Overhaul of cylinder oil level sensor and lubricator
- ✓ Inspection and function test for hydraulic oil auto filter control unit



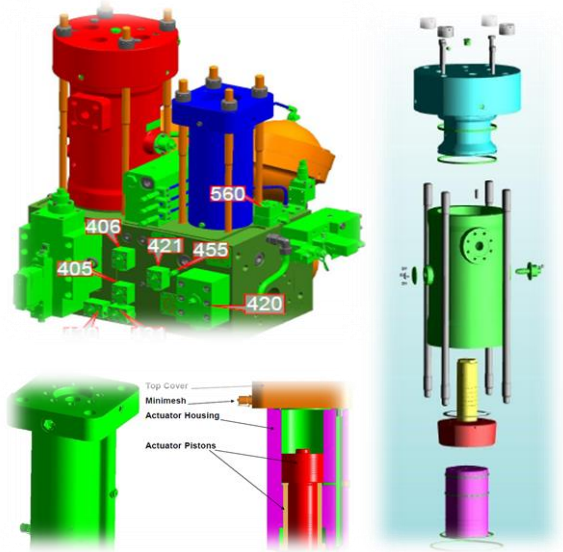
### 2. Pneumatic system (Including Spare Kits)

- ✓ Replacement repair kit for pneumatic valves
  - Pos. 12, 68, 115 : Two-position, Five-way valve
  - Pos. 26 : Two-position, Three-way valve
  - Pos. 92, 93, 94: Two-position, Three-way solenoid valve
- ✓ Replace repair kit for pneumatic system (#12, 26, 68, 92, 93, 94, 115)
- ✓ Function test of pneumatic system after replacement



## 3. Fuel booster unit and exhaust actuator

- ✓ Overhaul and inspection of fuel booster unit
  - Overhaul and replace of sealing kit
  - Overhaul and leakage test of suction valves
  - Check of inductive sensor
  
- ✓ Overhaul and inspection of exhaust valve actuator
  - Overhaul and replace of sealing kit
  - Check and function test of non-return valve
  - Check of inductive sensor



## 4. Electronic system

- ✓ Check of pressure sensor, pressure transmitter, level sensor
- ✓ Inspection of cable connection (All junction boxes)
- ✓ Inspection of power supply unit
- ✓ Inspection of MPC, MPC-10 units
- ✓ Inspection of proximity sensors
- ✓ Inspection and check of low insulation (Ground failure)
- ✓ Check and function test of interlock system
- ✓ Function test and check of local operation panel



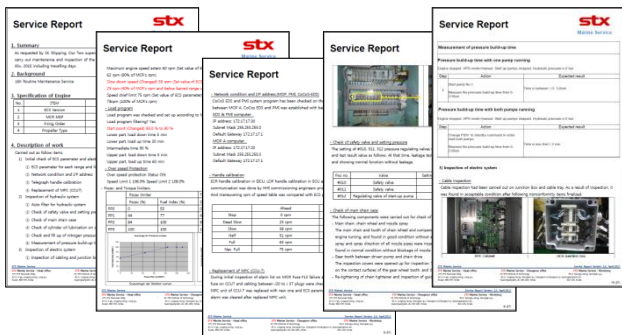


## 5. Main chain and driven gear case

- ✓ Check and inspection of main chain tension
  - Check and inspection of gear wheel tooth
  - Check and re-adjustment of main chain tension
- ✓ Check and inspection of gear wheel tooth for all driven pumps
- ✓ Check and inspection of spray nozzle and guide bar

## 6. Confirm trial

- ✓ Function test of HCU, HPS, Tachosystem, and calibration of feedback signal
  - Carry out function test of HCU, HPS, Tachosystem before confirm trial
- ✓ Engine starting test
  - Bridge control : Ahead <-> Astern
  - E.C.R : Ahead <-> Astern
  - Local control : Ahead <-> Astern
- ✓ Adjustment of fuel quality offset
- ✓ Check of cylinder lubrication feed rate
- ✓ Check of main engine performance during confirm trial



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