



- A CONTROL AIR SUPPLY UNIT
- B FUEL SUPPLY
- D SERVO OIL SUPPLY
- E VALVE UNIT FOR START
- H INSTRUMENT PANEL
- I PRESSURE TRANSMITTERS AND PRESSURE TRANSDUCERS
- K LOCAL CONTROL PANEL
- L CONTROL OIL PUMP UNIT
- 1. SPEED SETTING SYSTEM
 - 1.01 CRANK ANGLE SENSOR UNIT
 - 1.04 SPEED PI0X-LPS
- 2. STARTING SYSTEM
 - 2.03 SHUT OFF VALVE FOR STARTING AIR
 - 2.04 NON-RETURN VALVE
 - 2.05 CONTROL VALVE
 - 2.06 DRAIN AND TEST VALVE
 - 2.07 STARTING VALVE
 - 2.08 FLAME ARRESTER
 - 2.09 RELIEF VALVE
 - 2.10 HANDHELD THER SHUT OFF VALVE
 - 2.13 BLOCKING VALVE ON TURNING GEAR
 - 2.21 VENTING VALVE
 - 2.27 VENTING VALVE
- 3. FUEL SYSTEM
 - 3.01 FUEL INJECTION VALVE
 - 3.02 INJECTION CONTROL UNIT
 - 3.03 FUEL QUANTITY SENSOR
 - 3.04 INTERMEDIATE FUEL ACCUMULATOR
 - 3.05 FUEL RAIL
 - 3.06 FUEL PRESSURE CONTROL VALVE
 - 3.08 FUEL SHUTDOWN PILOT VALVE
 - 3.10 FUEL PUMPS
 - 3.12 LEAKAGE INSPECTION DEVICE
 - 3.14 FUEL PUMPS
 - 3.15 FUEL BOOSTER PUMP (PLANT)
 - 3.19 OUT-OUT DEVICE (TOOL)
 - 3.20 FUEL PUMP LEAKAGE
 - 3.21 FUEL PUMP ACTUATOR
 - 3.22 NON-RETURN VALVE
 - 3.24 FUEL INLET PIPE
 - 3.28 PIPING
 - 3.29 FUEL RISING PIPE
 - 3.31 STOP VALVE
 - 3.32 STOP VALVE
 - 3.33 STOP VALVE
 - 3.34 STOP VALVE
 - 3.35 PLUG
 - 3.37 PLUG
 - 3.38 PLUG
 - 3.39 PLUG
 - 3.40 STOP VALVE
 - 3.41 INJECTION CONTROL VALVE
 - 3.42 FUEL QUANTITY PISTON
 - 3.43 ACTUATOR PISTON
 - 3.45 CONTROL OIL RETURN PIPING
 - 3.46 FUEL LEAKAGE PIPE
 - 3.47 INJECTION PIPE
 - 3.48 FUEL LEAKAGE PIPE PRESSURIZED
 - 3.49 FUEL LEAKAGE PIPE INJECTOR
 - 3.51 NON-RETURN VALVE (FILLING)
 - 3.52-1 FUEL OVERPRESSURE SAFETY VALVE
 - 3.52-2 FUEL OVERPRESSURE SAFETY VALVE
 - 3.53 FILLING PLUG
 - 3.54 FILLING PLUG
 - 3.55 CHECKMATT
 - 3.56 NON-RETURN VALVE
 - 3.57 ORIFICE
 - 3.62-1 STOP VALVE
 - 3.62-2 STOP VALVE
 - 3.67 NON-RETURN VALVE
 - 3.68 DRAIN VALVE
 - 3.70 OVERFLOW PIPE
 - 3.71 RETURN PIPING
 - 3.72-1 CONTROL OIL PUMP 1
 - 3.72-2 CONTROL OIL PUMP 2
 - 3.73-1 PRESSURE RETAINING VALVE
 - 3.73-1B SAFETY VALVE
 - 3.73-1A PRESSURE RETAINING VALVE
 - 3.73-2B SAFETY VALVE
 - 3.74 HP CONTROL OIL PIPING
 - 3.75 CONTROL OIL RAIL
 - 3.76 RAIL VALVE
 - 3.77-1 PRESSURE TRANSMITTER
 - 3.77-2 PRESSURE TRANSMITTER
 - 3.78 PRESSURE TRANSMITTER
 - 3.79-1 STOP VALVE
 - 3.79-2 STOP VALVE
 - 3.79-3 STOP VALVE
 - 3.80-1 STOP VALVE
 - 3.80-2 STOP VALVE
- 4. EXHAUST VALVE DRIVE
 - 4.01 EXHAUST VALVE
 - 4.03 AIR SPRING
 - 4.06 NON-RETURN VALVE WITH THROTTLE
 - 4.08 AIR SPRING VENTING
 - 4.10 EXHAUST VALVE ACTUATOR
 - 4.11 SERVO OIL RAIL
 - 4.14 LEAKAGE INSPECTION DEVICE
 - 4.15 SERVO OIL PUMP
 - 4.18 LEVEL SWITCH
 - 4.20 AUTOMATIC FILTER
 - 4.22 CRANKCASE
 - 4.23 SAFETY VALVE
 - 4.24 NON-RETURN VALVE
 - 4.25-1 STOP VALVE
 - 4.25-2 STOP VALVE
 - 4.26-1 STOP VALVE
 - 4.26-2 STOP VALVE
 - 4.26-3 STOP VALVE
 - 4.26-4 STOP VALVE
 - 4.27 PRESSURE REDUCING VALVE
 - 4.29 NON-RETURN VALVE
 - 4.30-1 STOP VALVE
 - 4.30-2 STOP VALVE
 - 4.32 PLUG
 - 4.33 PLUG
 - 4.34 PLUG
 - 4.35 NON-RETURN VALVE
 - 4.36 STOP VALVE
 - 4.37 STOP VALVE
 - 4.39 GEAR WHEEL CRANKSHAFT
 - 4.41 INTERMEDIATE WHEEL SUPPLY UNIT
 - 4.42 GEAR WHEEL
 - 4.44 GEAR WHEEL
 - 4.45 PISTON
 - 4.50 CARRIER WITH SHEARABLE OVERLOAD PROTECTION SUPPLY PIPE
 - 4.51 COLLECTOR BLOCK
 - 4.52 NON-RETURN VALVE
 - 4.53 SERVO OIL RISING PIPE
 - 4.55 SERVO OIL RETURN PIPING
 - 4.64-1 PRESSURE RETAINING VALVE
 - 4.64-2 PRESSURE RETAINING VALVE
 - 4.64-3 ACTUATOR PIPE
 - 4.68 DISC SPRING
 - 4.69 TWO-STAGE PISTON
 - 4.70-1 STROKE SENSOR
 - 4.70-2 STROKE SENSOR
 - 4.71 STROKE MEASURING DEVICE
 - 4.72 DRAIN VALVE
 - 4.76 RAIL VALVE
 - 4.77-1 PRESSURE TRANSMITTER
 - 4.77-2 PRESSURE TRANSMITTER
 - 4.78 DISTRIBUTOR BLOCK
 - 4.86-1 NON-RETURN VALVE
 - 4.86-2 NON-RETURN VALVE
 - 4.87 STOP VALVE
- 7. MONITORING
 - 7.18 COLLECTOR FOR LEAKAGE OIL FROM AIR SPRING
- 8. CYLINDER LUBRICATING SYSTEM
 - 8.04 PROGRESSIVE BLOCK DISTRIBUTOR
 - 8.06 CYLINDER LUBRICATING PUMP
 - 8.07 SIGHT GLASS INDICATOR
 - 8.08 ACCUMULATOR
 - 8.09 LUBRICATING QUILL WITH NON-RETURN VALVE
 - 8.16 ANGULAR GEAR BOX WITH MOTOR
- 9. ENGINE ROOM
 - 9.01 STARTING AIR BOTTLES

7-29.405 11.12.03
 7-29.771 15.06.04
 Number Date Number Date
 8-1281-flex90C-B
 4003 150 JTS
 O-107.333.797
 WARTSILA