

## WÄRTSILÄ SERVICES IN KOREA RENEWAL SERVICE

Wärtsilä Renewal Services provide a solution to the required periodical maintenance of large RT-flex components, such as Injection Control Units (ICU), Servo Oil Pumps (SOP), and Fuel Oil Pumps (FOP). We also offer customized service solutions for all RT-flex components.



## WÄRTSILÄ **Renewal Service**

ICU ( Injection Control Units )

PCV ( Pressure Control Valve for rail unit )

IFA ( Intermediate Fuel Accumulator )

FOP ( Fuel Oil Pump of supply unit )

SOP ( DYNEX Servo Oil Pump )



### OUR SERVICES

#### ICU Maintenance

The life expectancy of ICU components depends upon operational conditions. In case of ICU malfunction, the options for on-board problem solving are normally limited to replacement of the rail valves, the fuel quantity sensor and the fuel quantity piston.

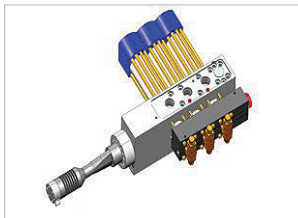
If further measures are required, the complete ICU, including rail valves and fuel quantity sensor/piston, should be sent for repair or renewal.

#### PCV and IFA Maintenance

Wear and damages may occur on the sealing surface. Maintenance manuals recommend that these components be overhauled after 24,000 to 30,000 running hours.



### RT-FLEX COMPONENTS RENEWAL SERVICE



#### YOUR BENEFITS

Wärtsilä offers renewed RT-flex injection components on exchange basis for all RT-flex engines. Return used RT-flex engine components and receive a price reduction on the renewed components.

#### OUR CAPABILITIES

Wärtsilä warehouses maintain a pool of renewed RT-flex engine components for immediate exchange service. All these exchange components are pre-tested in our qualified renewal center. The costs for renewed RT-flex engine components are substantially lower than the costs for new RT-flex engine components.



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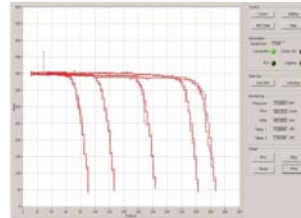
### OUR SERVICES

Maintenance manuals recommend that these components be maintained after 24,000 to 30,000 running hours.

Wärtsilä's Servo Oil Pump (SOP) complete renewal service includes modification of covers with new pins, a new driveshaft, new needle roller bearings and the replacement of all damaged parts.

Wärtsilä's RT-flex Fuel Oil Pump (FOP) complete renewal service includes an upgrade of the pump design and the replacement of all damaged parts.

### DYNEX SERVO OIL PUMP & FUEL OIL PUMP RENEWAL SERVICE



#### YOUR BENEFITS

Wärtsilä offers renewed RT-flex pumps on an exchange basis for all RT-flex engine types. Return the used RT-flex engine components and receive a price reduction on the renewed components.

#### OUR CAPABILITIES

- DYNEX Servo Oil Pump: complete renewal service including performance test
  - Wärtsilä Korea operates its own test rig for functional and performance tests of DYNEX hydraulic pumps.
- RT-flex Fuel Oil Pump: complete renewal service including pressure and oil leakage test
  - To minimize risks during operation, Wärtsilä Korea provides pressure and oil leakage tests for all renewed fuel oil pumps.



Wärtsilä enhances the business of its customers by providing them with complete lifecycle power solutions. When creating better and environmentally compatible technologies, Wärtsilä focuses on the marine and energy markets with products and solutions as well as services. Through innovative products and services, Wärtsilä sets out to be the most valued business partner of all its customers. This is achieved by the dedication of over 18,000 professionals manning 160 locations in 70 countries around the world. Wärtsilä is listed on the Nordic Exchange in Helsinki, Finland.

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**WARTSILA.COM**



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