

Wärtsilä Take me home kit for two-stroke main engines



The timely delivery of a vessel's cargo depends directly on the reliable operation of the vessel's main engines. However, fuel impurities have become a major problem, endangering the key components of marine low-speed two-stroke diesel engines.

THE RISKS OF LOW QUALITY FUEL

Fuel which does not meet the ISO 8217 2017 standards is often referred to as **bad fuel**.

Bad fuel can cause key engine parts, such as the injection control unit, fuel pressure control valve, fuel oil pump or cylinder liners and piston rings to go **from new to unusable in no time**.

Especially engines that are frequently switched from heavy fuel oil to marine diesel oil or marine gas oil are at risk. In these cases there is a risk that the **damage goes unnoticed** until the switch-over.

Due to bad quality fuel, there has been a tremendous increase of drifting or hardly manoeuvrable vessels close to ports.

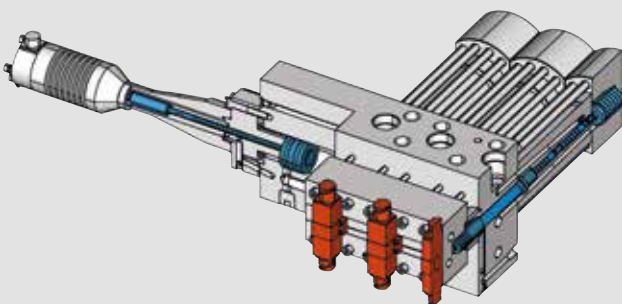
STAY ON THE SAFE SIDE

Against this background, Wärtsilä has launched the **Take me home kits**.

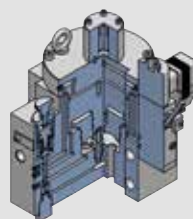
These **sets of OEM spare parts** include the most essential engine components affected by bad fuel and are available for X, RT-flex and RTA engines.

They should be kept onboard in addition to the IACS spares and enable you **to get the high pressure fuel system back into operation** after an engine breakdown caused by bad bunker fuel – everything you need to get back on track!

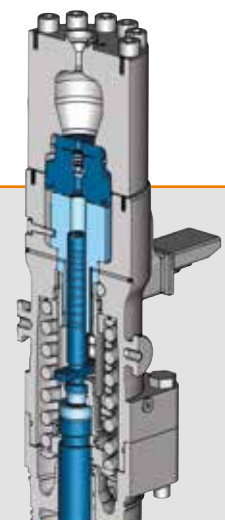
TAKE ME HOME KIT



Injection control unit including spare fuel injection valves



Pressure control valve

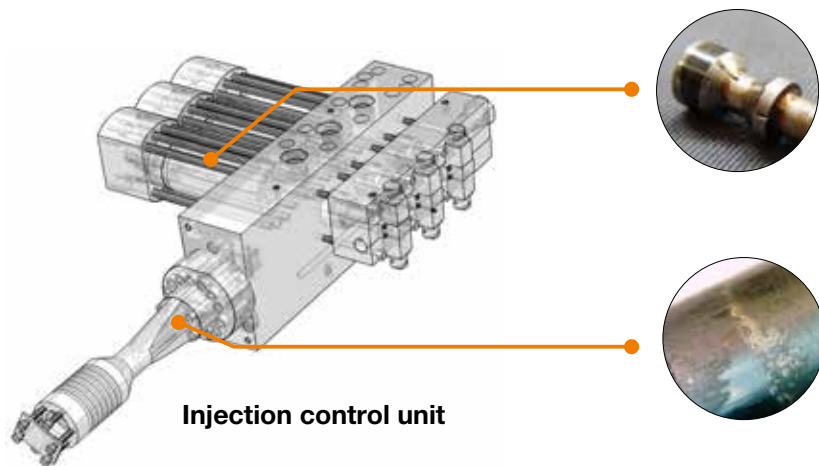


Fuel oil pump

BENEFITS

- Avoid cargo delays
- Reduce downtimes drastically
- For X, RT-flex and RTA engines

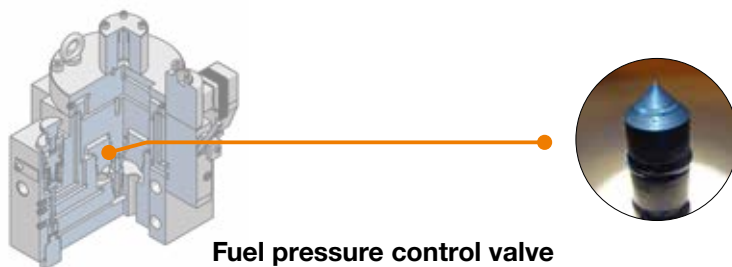
HOW LOW QUALITY FUEL AFFECTS YOUR ENGINE



Injection control unit

Bad quality fuel leads to worn out **injection control valves** which in turn provokes a higher leakage rate or even uncontrolled injection. The consequence is extreme wear on piston running components and an engine that cannot be started again.

Insufficient fuel quality also causes the **injection control quantity piston** to wear out, which can lead to incorrect injection quantity measurements. Furthermore, the leakage rate can also increase, which also means that the engine cannot be started again.

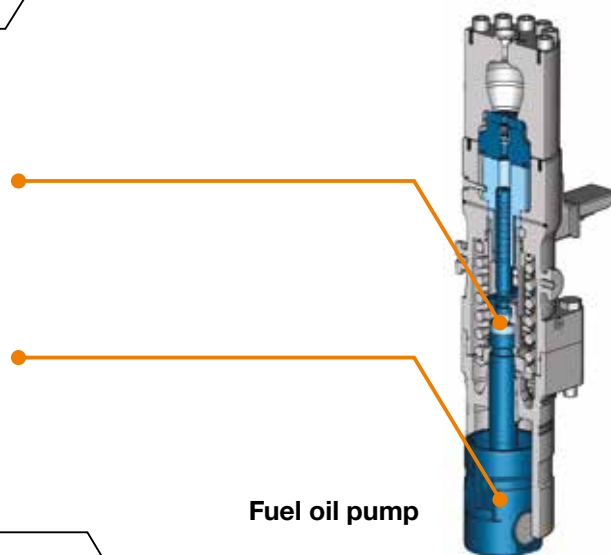
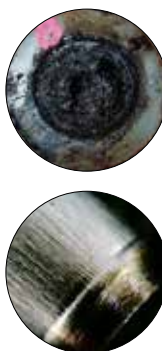


Fuel pressure control valve

Bad quality fuel can result in a worn out **fuel pressure control valve** which increases leakages on the high pressure fuel rail, causing engine starting problems.

If the **drainages of the fuel oil pumps** have been partly blocked before, this can also cause fuel leakages into the crankcase and system oil contamination.

Bad quality fuel can result in worn out **plunger and barrels** which in turn leads to increased leakages.



Fuel oil pump

SCOPE OF SUPPLY

X and RT-flex engines	RTA engines
<ul style="list-style-type: none"> ● Spare injection control unit & repair kits ● Spare fuel pressure control valve & repair kits ● Spare fuel injection valves ● Spare fuel oil pump & repair kits 	<ul style="list-style-type: none"> ● Spare fuel injection valves ● Spares for fuel oil pump

The number of recommended spares depends on the engine configuration and will be offered individually.