

LOOKING FOR IMPROVEMENTS?

MODIFICATION OPPORTUNITIES BY ZEPPELIN POWER SYSTEMS



KEEP YOUR MaK ENGINE READY AND RELIABLE AND MAKE YOUR LIFE EASIER

FUEL OIL LOW PRESSURE PIPING

DESCRIPTION

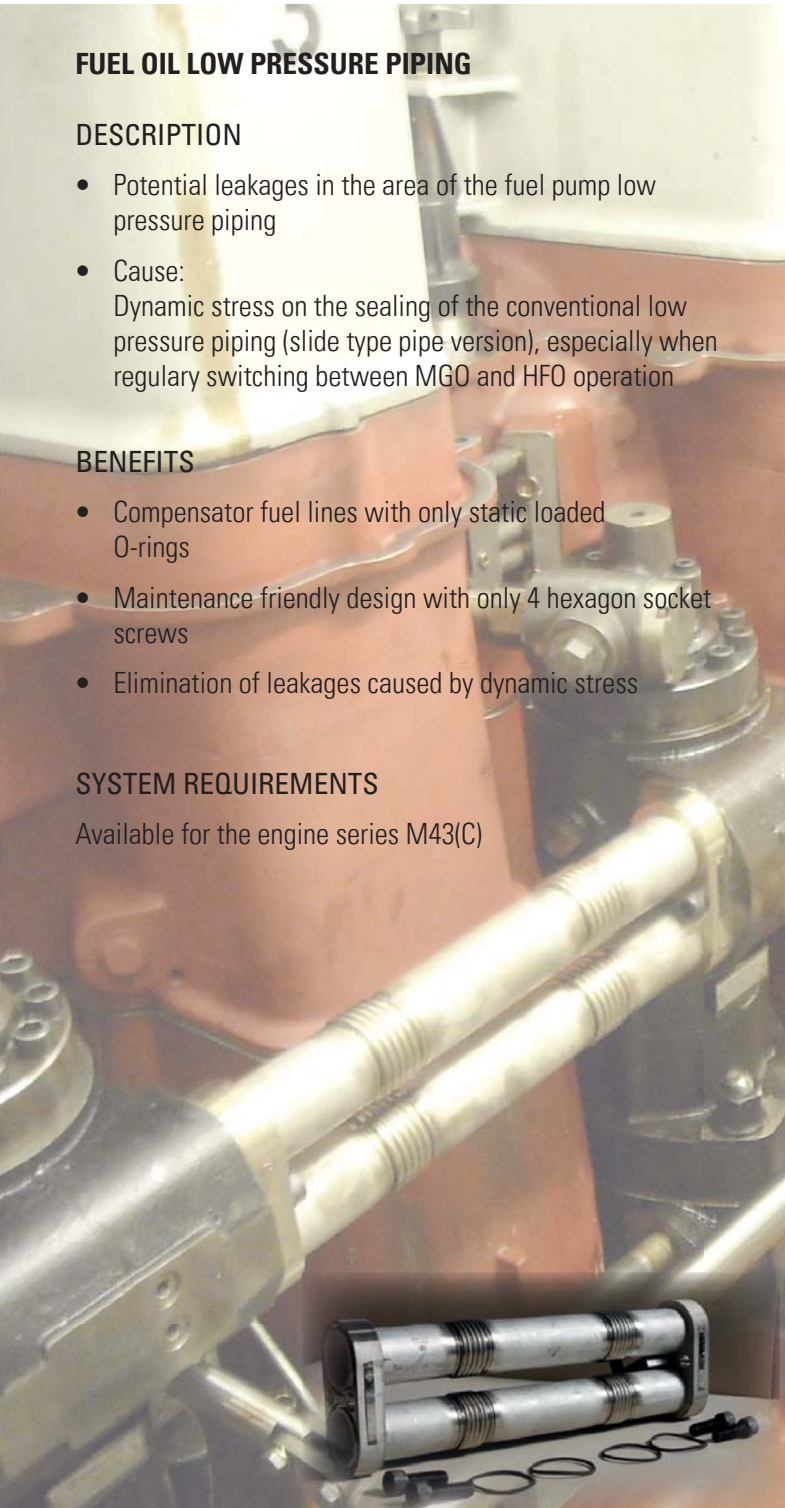
- Potential leakages in the area of the fuel pump low pressure piping
- Cause:
Dynamic stress on the sealing of the conventional low pressure piping (slide type pipe version), especially when regularly switching between MGO and HFO operation

BENEFITS

- Compensator fuel lines with only static loaded O-rings
- Maintenance friendly design with only 4 hexagon socket screws
- Elimination of leakages caused by dynamic stress

SYSTEM REQUIREMENTS

Available for the engine series M43(C)



RETROFIT KIT FOR WOODWARD GOVERNOR

DESCRIPTION

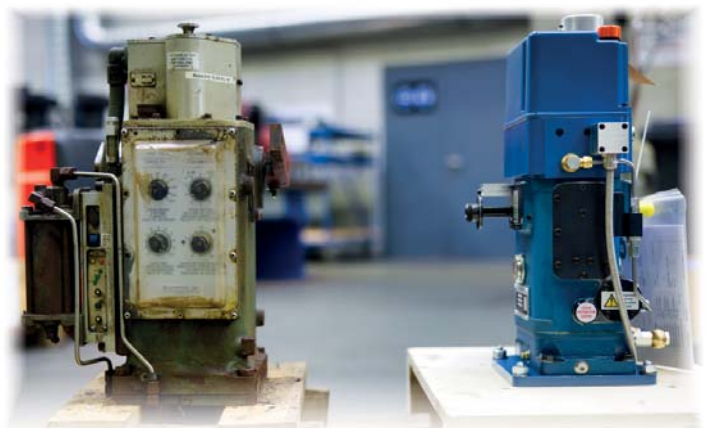
- Due to the phase out of the Woodward UG40DI governor by the manufacturer, engine and plant operation will be affected by considerable difficulties and delays owing to a lack of spare parts supply for electronic components. In the future, spare part supply for electronic components cannot be ensured any more.
- For this reason it is necessary, in case of a failure of electronic assemblies, to replace the existing Woodward governors of type UG40-DI by an alternative governor.
- The retrofit kit described is for retrofitting a Woodward UG40-DI governor to type EUROPA RE1115L-4G-40.

BENEFITS

- Remote installed electric governor drive
- Less maintenance required
- Higher reliability
- Good spare part availability

SYSTEM REQUIREMENTS

Available for the engine series M32(C) and M43(C)



RETROFIT OF BEARING & GREASING SYSTEM ON CONTROL STAND SHAFT

DESCRIPTION

- Control stand retrofit of worn shaft bearings
- Prevents mechanical blocking of the fuel control rack
- Avoids expensive exchange of control stand frame
- By means of a hole machined in the bearing shell of the control linkage a lubricating nipple with selfcutting thread is introduced. The contact surfaces of the control shaft and the bearing bush are thus completely separated from each other and cannot wear out any further.



BENEFITS

- Reliable fuel control gear
- The lubricant applied to the bearing surface completely absorbs the load
- Reduced wear on emergency stop control shaft
- Increasing operational safety and bearing lifetime
- Less bearing clearance



SYSTEM REQUIREMENTS

Available for the engine series M43(C)

