

Dear Sirs

For the engine type L16/24 we have learned that the lifetime of the fuel injection nozzle can be extended considerably by lowering the opening pressure from 450 bars to 400 bars. Based on our findings, we have updated our attached description: Data for Pressure and Tolerance 500.35.

- Opening pressure for new or reconditioned fuel valve: **400 bar**

The NOx emissions are still within the actual IMO regulation in force for the engine when lowering the opening pressure.

Our latest recommendation is to extend the time between overhaul of the fuel injection valves to 8000 running hours. However, in the time between overhaul we recommend to remove the injection valve from the engine only if the following operational conditions are exceeded:

- The deviation of the exhaust gas temperature after the cylinders exceeds 40°C
- The exhaust gas temperature at turbocharger inlet increases to 10°C below the alarm limit
- Black smoke is observed during normal, static load.

In case one of the above-mentioned operational conditions is exceeded, the fuel injection valve must be checked according to the attached working card 514-01. In case the opening pressure is higher than 350 bar and all nozzle holes are open:

- Reuse the fuel valve *without* readjustment of the opening pressure.

If the opening pressure is below 350 bar:

- Replace the injection nozzle, spring and pressure bolt.

As our service experience has proven that the satisfactory lifetime and performance of the fuel valve is influenced by the condition of the above mentioned parts, we have decided to deliver these parts only as a kit containing items 021/273, 057 and 070, please see attached spare parts plate P51402-26.

Yours faithfully


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Action code: WHEN CONVENIENT

Fuel Valve Adjustment

SL2017-641/JNN
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Concerns

Owners and operators of
 MAN four-stroke diesel engines.

Types:

Marine: L16/24

Stationary: L16/24S

References:

Safety precautions A5003-01

Service Letters SL2016-615 and

SL2013-577

MDO/MGO specification D010.000.023-04

HFO specification D010.000.023-05

Attachments:

Description 500.35 (81)

Work card 514-01.02 (02)

Plate P51402-26

