

BP Shipping



BP Shipping (USA)

Technical Assurance Team

Maritime Air Quality Technical Working
Group

Focus on Fuel Switching

In-Use Experiences

N. G. Tinsley

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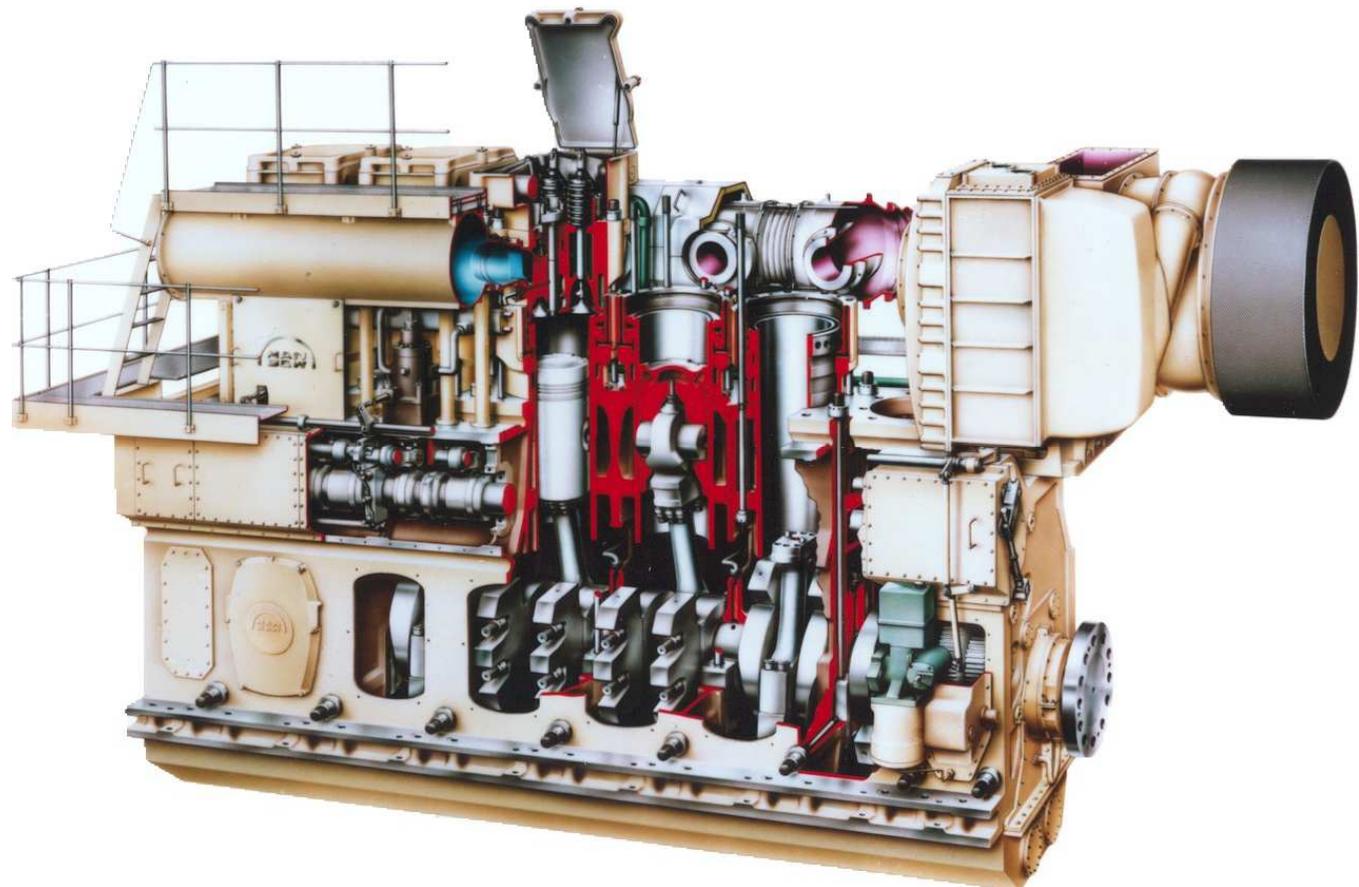


Diesel Engine Operation when Switching from Heavy Fuel Oil to Low Sulphur Marine Diesel Oil/Low Sulphur Marine Gas Oil



Trunk Engines

- Short term operation (<72 Hrs)
- Long term operation (>72 Hrs)



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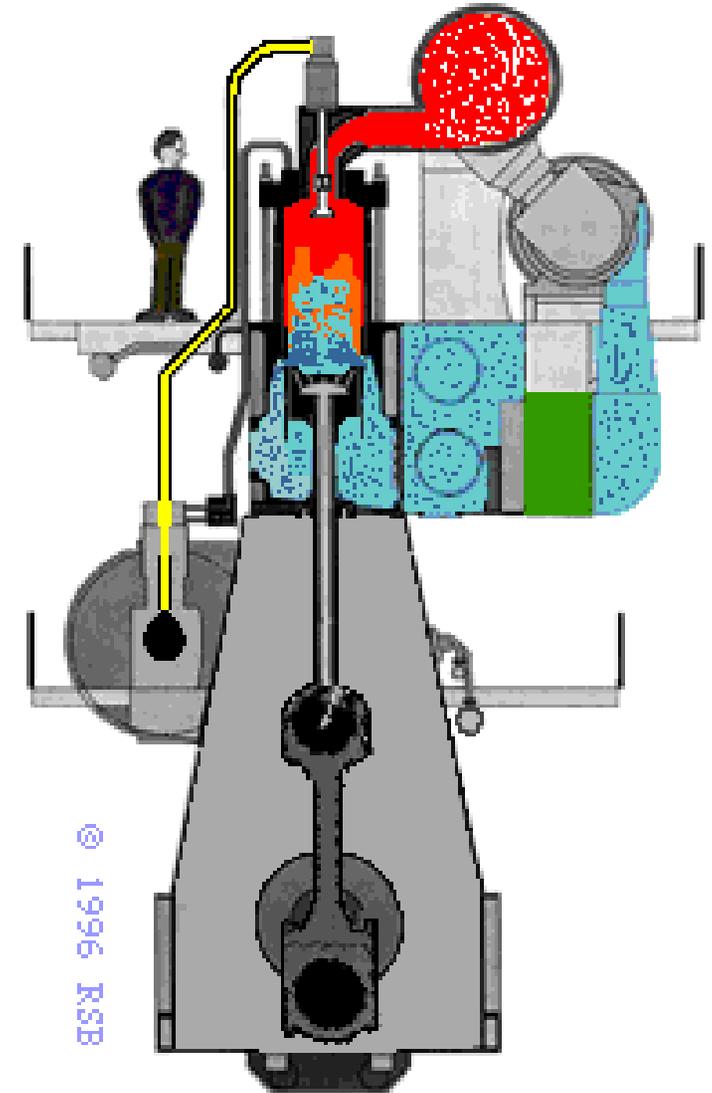
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Diesel Engine Operation when Switching from Heavy Fuel Oil to Low Sulphur Marine Diesel Oil/Low Sulphur Marine Gas Oil



Crosshead Engines

- Short term operation (<72 Hrs)
- Long term operation (>72 Hrs)



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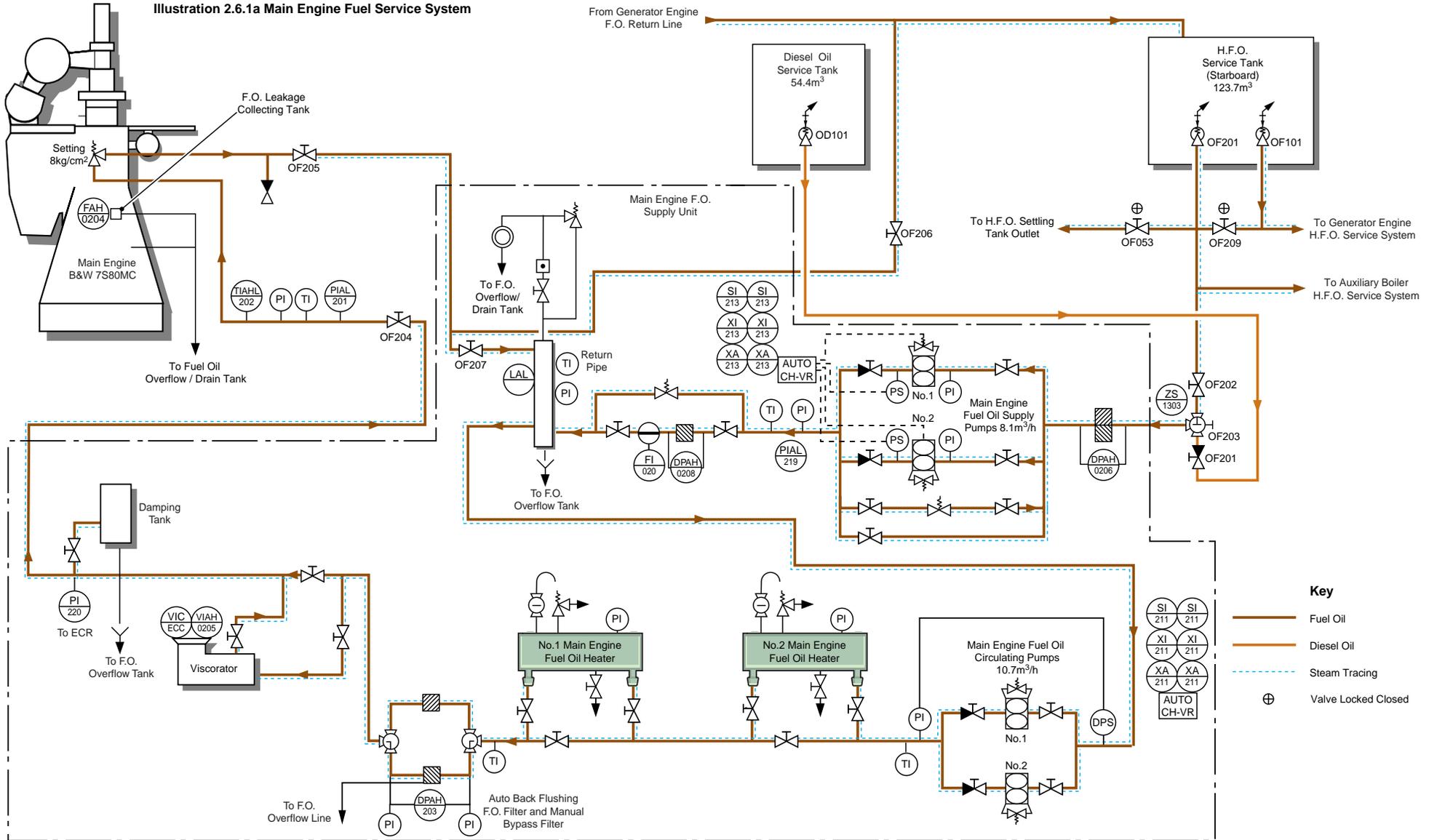


Concerns:

- **Loss of lubricity**
- **Fuel in-compatibility**
- **Diesel knock**
- **Cost**



Illustration 2.6.1a Main Engine Fuel Service System



- Key**
- Fuel Oil
 - Diesel Oil
 - - - Steam Tracing
 - ⊕ Valve Locked Closed

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Best practices

- Developing standard procedures
- Engine manufactures procedures

Slow and easy



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