

Marine Diesel for Inland Shipping

Some Oil Industry Reflections

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**EUROPEAN
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The right fuel for the Rhine

- Environmental impact acceptable
 - SOx emissions
 - NOx
 - Particulates

} Exhaust Gas Treatment (EGT)
- Compatible with old and new engines
 - No dedicated engine adaptations for the Rhine
- Affordable and readily available
 - No special “Rhine diesel”
 - Aligned with other major middle distillate products (heating oil, automotive diesel)
 - Preferably aligned with the fuels directive.
 - Preferably not two parallel grades over extended period



Planning

- All stakeholders need planning certainty
 - Vessel owners
 - Engine manufacturers
 - Fuel distributors
 - Refiners
 - Regulators
- What will be the fuel spec long term?
- What practical measures need to be taken to make it possible
 - Vessels
 - Distribution systems
 - Refineries
- What measures will bring about the changes?
 - Incentives
 - Regulation
- When will it happen?



Questions

- Note: Europe is short in low sulfur diesel.
 - Additional volume should be justified.
- What Sulfur level is required for environmental reasons?
 - Impact on SO_x emission
 - Needed for proper functioning of EGT
 - Impact of Exhaust gas Treatment on NO_x and particulates
- How big is the volume required and when?
- Aligning with “standard grades” (heating oil or automotive diesel):
 - What changes are expected for these products
 - Sulfur level
 - Bio-components
- Are existing engines compatible with the envisaged grades?
- Are there tax aspects to be solved?
- If the dominant benefit is as enabling fuel for EGT:
 - What measures should be taken to ensure penetration of EGT?



Proposed roadmap

Multi stakeholder programme

- Answer the key practical questions
 - Engine tests for compatibility
 - Quantification of environmental benefits
 - Expected changes to existing grades
- Decide on the appropriate grade
- Design measures to bring about the changes
- Decide on timing

