Contributions to the Development of Injector Coking
Contents

- Fuel Deposits
- Injector Coking
- Test Results
- Influence of Fuel Quality
- Supply of Fuels / Alternative Fuels
Fuel Deposits

Malfunctions

- Flow restraint via deposits at nozzle tip
- Restraint of needle movement via deposits at nozzle tip
- Sluggish nozzle needle via deposits in needle guidance
Injector Coking

Deposits

1 Deposit at Bore of Injector Nozzle
2 Deposit outside of Tip of Injector Nozzle
3 Deposit around and on Cone of Injector Nozzle
Test Results

Coking Test

Influence of Injector Nozzle Fouling, KST / DGMK Project 639
Test Results

Comparison of Fuel – Influence of Fouling of Injector Nozzles, KST / DGMK Project 639
Influence of Fuel Quality

Comparison Reference Fuel

Injector Coking - Fuels, KST / DGMK Project 639
Influence of Fuel Quality

Comparison of Various Fuels

Injector Coking - Fuels,  
KST / DGMK Project 639
Supply of Fuels/ Alternative Fuels

- Storage for 20 different fuels
- Storage equipment for supply of bio fuels
- LPG 8 bar / 20 bar
- CNG 70 bar / 200 bar
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