

West Coast Collaborative Hawai'i Partners Meeting June 25, 2008



Topics

- Retro fit of Passive Systems
- CARB Level 1
- CARB Level 2
- CARB Level 3
- Closed Crankcase Systems



- DOCM, DOC Flow through system
- 25% + PM Reduction
- Minimum temperature requirements
- Most cases direct replacement
- School bus kits
- Different styles



- Some Fabrication
- No maintenance
- Replacement issues Engine failure
- Pricing \$1000 \$1200 installed
- Up to a 5 year warranty



- DMF Flow through system
- 50% + PM Reduction
- Temperature requirements Understand Understand flow rates and duty cycles cycles
- Data logging
- Software



- Most cases direct replacement
- School bus kits
- Different styles
- No maintenance
- Replacement Issues



- Pricing \$5000 to \$6000
- Up to a 5 year warranty



- DPF Wall through flow
- 85% + PM Reduction
- Higher temperature requirements
- Data logging Duty cycle
- Duty cycle needs to remain the same



- Most cases direct replacement
- School bus kits
- Many styles
- Some additional parts



- Flow rates determine size of cores
- Additional hard ware for size of cores cores
- Back pressure build up of soot/ash
- Back pressure monitor/software



- Cleaning requirements/duty cycle
- Air systems
- Heating systems
- Pricing \$9000 \$12,000
- Warranty up to 5 years



Closed Crankcase Systems

- 100% PM reduction
- Most applications are able to retro fit
- Some fabrication for mounting brackets brackets
- Flow testing
- Look for specifications to determine if if engine is a good candidate



Closed Crankcase Systems

- Important to have a experienced installer installer
- Maintenance for the system and filter filter
- Up to a 5 year warranty
- Pricing \$700 \$900



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