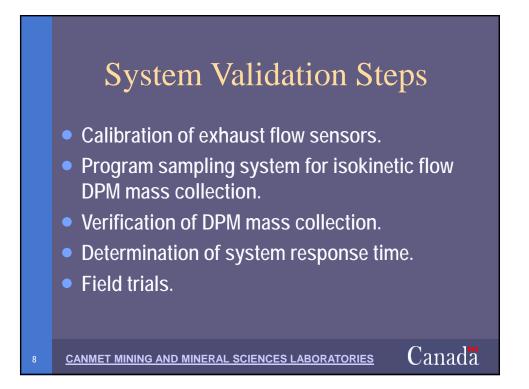


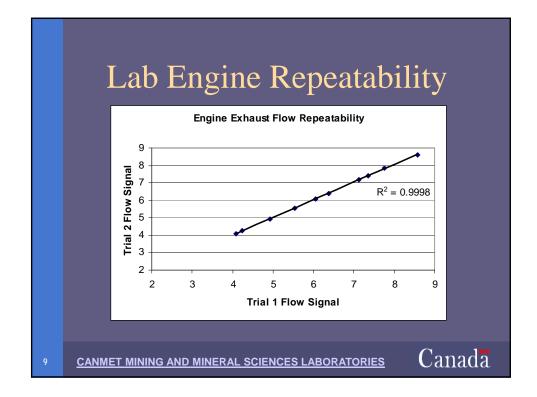
Canada

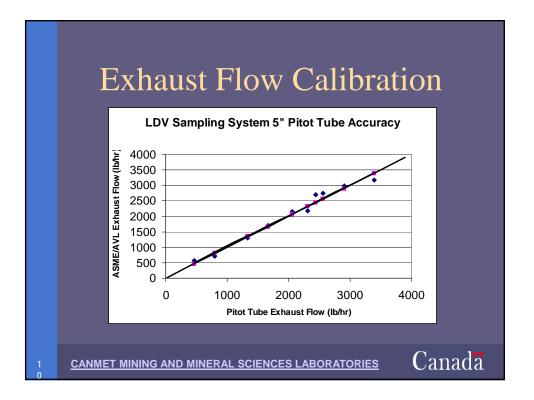


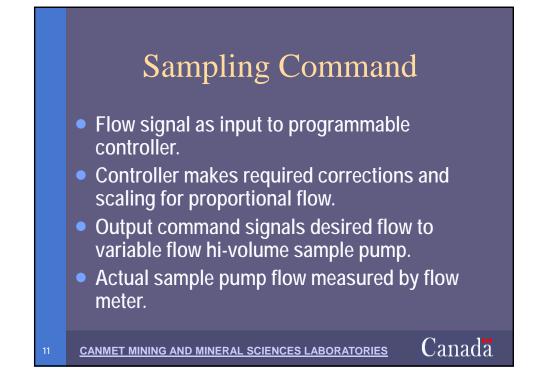
- Validation of sampling system at CANMET diesel testing facility.
- Flow measurement with ASME venturis, Sierra 620S mass flow sensor, AVL 734 fuel meter.
- DPM sampling Sierra BG-2 Micro-dilution tunnel.
- Operation of laboratory engines over various speed and load points for a wide range of exhaust flows.
- Detroit Diesel 11.1L Series 60, Kubota V3300T.

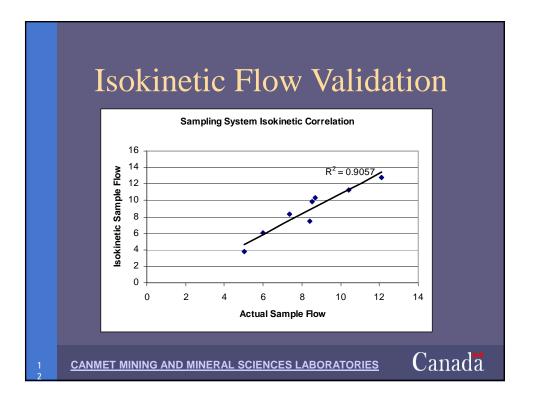
CANMET MINING AND MINERAL SCIENCES LABORATORIES











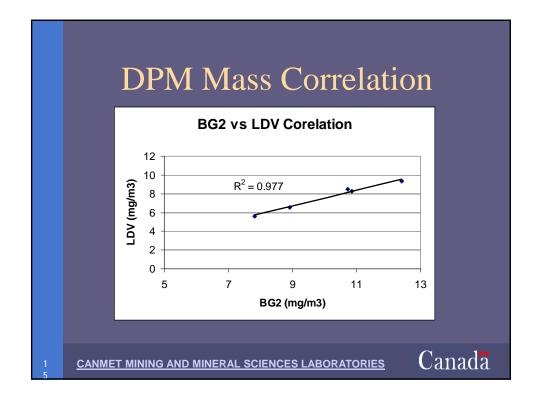
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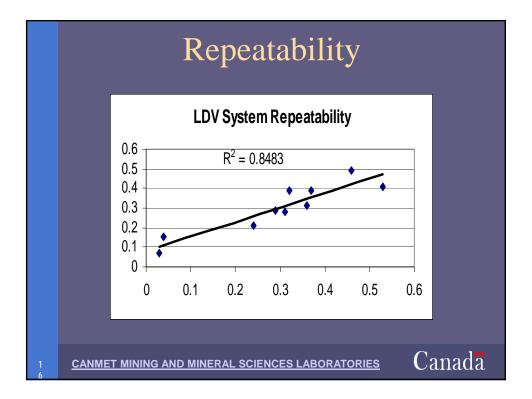
DPM Mass Collection

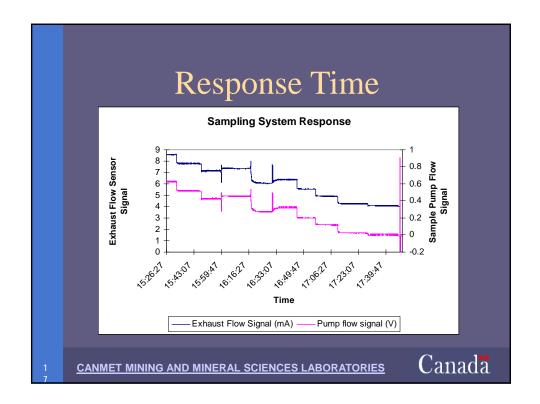
- Sierra BG-2 Micro-dilution system.
- Used for engine certification to ISO 8178.
- Diluted sample collection on 90mm filters.
- LDV sampling system: undiluted tailpipe exhaust collection on 37mm filters.
- Difficult to compare diluted to undiluted system.

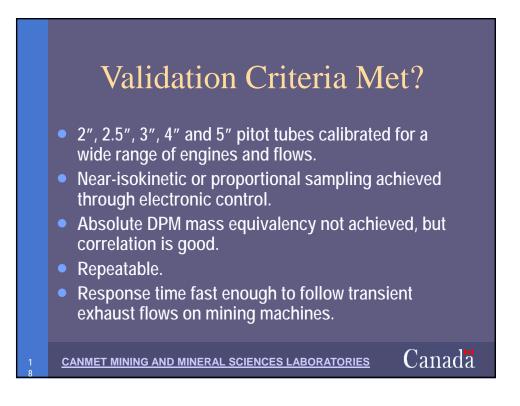
CANMET MINING AND MINERAL SCIENCES LABORATORIES

DPM Mass Collection DPM Mass Collection: Sierra BG-2 vs LDV Sampling System 14 DPM Sample (mg/m3) 12 10 BG2 ٠ 8 LDV 6 Linear (BG2) - Linear (LDV) 4 2 0 2 0 4 6 Test Point Canada **CANMET MINING AND MINERAL SCIENCES LABORATORIES**

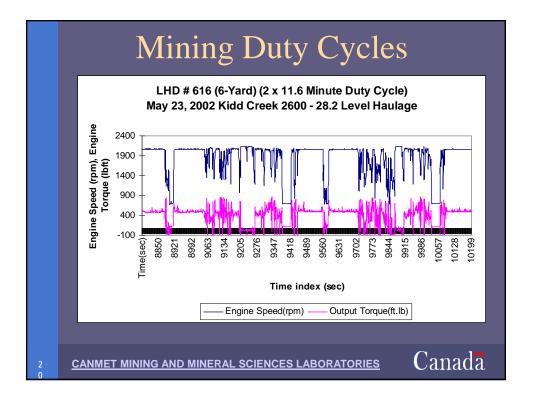




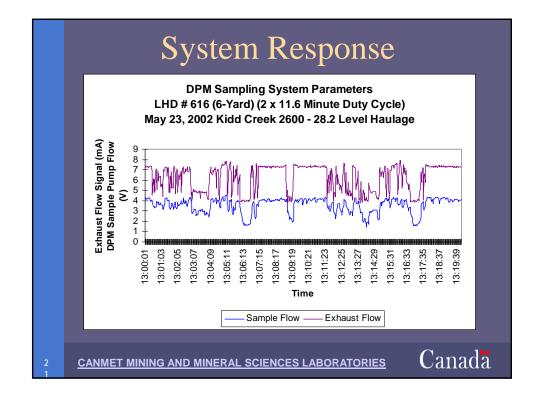


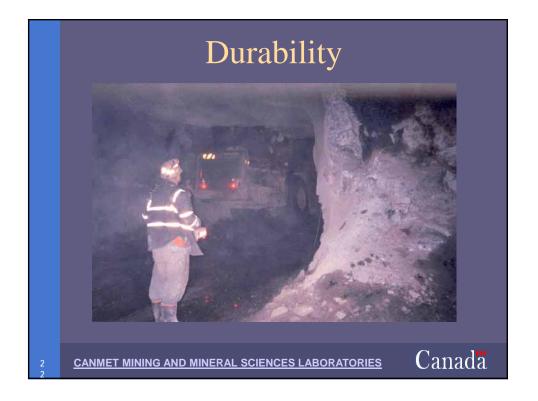


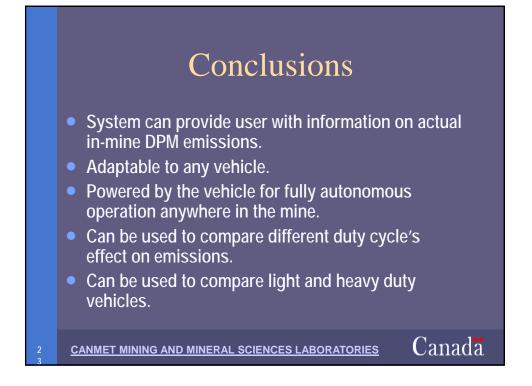


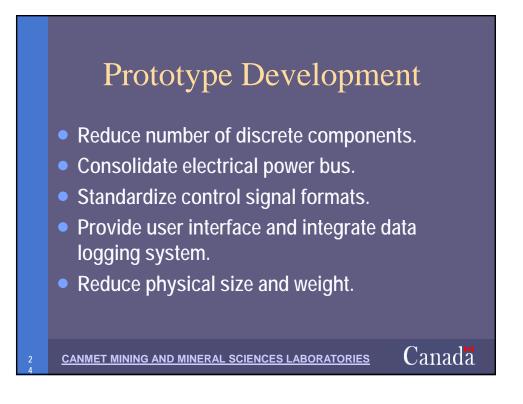


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