



**CATERPILLAR®**  
36 County Road 166  
Oxford, MS 38655

May 21st, 2008

**Attention: Caterpillar Team.**

**Subject: Absolent Start-up/Commissioning Performance Test #1.**

| <b>CAT Cold Header Model Number</b> | <b>#1875</b> | <b>#1874</b> | <b>#1250</b> | <b>#1500</b> | <b>#1500</b> |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|
| Absolent Model ODR-3000 S/N         | 20070655     | 20070656     | 20080217     | 20080218     | 20080216     |
| Aerosol Sample Operator             | 0.468 mg/m3  | 0.468 mg/m3  | 0.246 mg/m3  | 0.518 mg/m3  | 0.518 mg/m3  |
| Aerosol Sampler Inlet Plenum        | 26.7 mg/m3   | 36.4 mg/m3   | 64.4 mg/m3   | 57.10 mg/m3  | 18.0 mg/m3   |
| Aerosol Sample Stage I Filter       | 6.58 mg/m3   | 14.6 mg/m3   | 18.1 mg/m3   | 9.96 mg/m3   | 3.75 mg/m3   |
| Aerosol Sample Stage II Filter      | 0.736 mg/m3  | 0.819 mg/m3  | 1.77 mg/m3   | 1.05 mg/m3   | 0.899 mg/m3  |
| Aerosol Sample Stage III Filter     | 0.069 mg/m3  | 0.055 mg/m3  | 0.080 mg/m3  | 0.077 mg/m3  | 0.054 mg/m3  |
| Pressure Drop Fiber Bed Filter 1    | 2.25" IN WG  | 1.5" IN WG   | 1.0" IN WG   | 2.0" IN WG   | 1.25" IN WG  |
| Pressure Drop Fiber Bed Filter 2    | 1.0" IN WG   | 1.0" IN WG   | 1.0" IN WG   | 1.0" IN WG   | 1.0" IN WG   |
| Pressure Drop Fiber Bed Filter 3    | 0.5" IN WG   | 0.5" IN WG   | 0.5" IN WG   | 0.5" IN WG   | 0.5" IN WG   |
| Airflow CFM                         | 2350CFM      | 2350CFM      | 2350CFM      | 2350CFM      | 2350CFM      |

**Conclusion:**

Units are performing as designed with relation to die cavity air change exhaust rate, fiber bed filtration efficiency, reduction of ambient operator exposure levels in mg/m3, compliance with potential future oil mist standards, and pressure drop range is within start-up guidelines.

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