

# Diesel Particulate Matter Sampling Field Notes

Metal and Nonmetal Mine Safety and Health

U.S. Department of Labor  
Mine Safety and Health Administration



1. Mine name \_\_\_\_\_ 2. Company name \_\_\_\_\_ 3. Mine ID \_\_\_\_\_
4. Name of person conducting sampling \_\_\_\_\_ 5. AR # \_\_\_\_\_ 6. Date \_\_\_\_\_ 7. Event # \_\_\_\_\_
8. Commodity \_\_\_\_\_ 9. Hours/Shift \_\_\_\_\_ 10. Production Shifts/Day \_\_\_\_\_ 11. Maintenance Shifts/Day \_\_\_\_\_
12. Type of fuel in use at the mine \_\_\_\_\_ 13. Fuel sulfur content(%) \_\_\_\_\_ 14. Type of fuel additives used at the mine \_\_\_\_\_
15. Is there a person authorized to maintain diesel equipment? Y N 16. Is there a planned maintenance program in place? Y N
17. Has diesel equipment inventory been reviewed? Y N 18. Has mine ventilation plan / map been reviewed? Y N

|   |     |     |     |
|---|-----|-----|-----|
| 19. Sample Cassette No.   |     |     |     |
| 20. Name of miner sampled   |     |     |     |
| 21. Number of miners affected   |     |     |     |
| 22. Occupation sampled  |     |     |     |
| 23. If a respirator is worn: brand, model, type of filters                              |     |     |     |
| 24. If a respirator is worn: is there an acceptable respiratory protection program?     | Y N | Y N | Y N |
| 25. Equipment operated<br>Type or description<br>Identification #                       |     |     |     |
| 26. Location in mine  |     |     |     |
| 27. Is person sampled inside an environmental cab or booth with filtered breathing air? | Y N | Y N | Y N |
| 28. Temperature (°F) and humidity(%)  |     |     |     |
| 29. Ventilation rate (CFM) in location sampled (measure if possible)                    |     |     |     |
| 30. Sample pump make/model  |     |     |     |
| 31. Sample pump number  |     |     |     |
| 32. Pre-calibration (average Lpm)   |     |     |     |
| 33. Post-calibration (average Lpm)  |     |     |     |
| 34. Sample pump time on   |     |     |     |
| 35. Sample pump time off  |     |     |     |

|                                | 36. For each piece of diesel equipment used at the workplace sampled, list: | 37. Piece # ____ | 38. Piece # ____ | 39. Piece # ____ | 40. Piece # ____<br>(Use more sample blocks if needed) | 41. Other Notes/Observations - Sampling equipment checks, environmental conditions, activities, DPM controls, ventilation control structures (stoppings, doors, brattices, etc.) |
|--------------------------------|---|------------------|------------------|------------------|--|--|
| Sample Cassette No.<br>_____   | A. type or description  |                  |                  |                  |  | _____  |
| Name of miner sampled<br>_____ | B. Identification #   |                  |                  |                  |  | _____  |
| _____                          | C. equipment condition  |                  |                  |                  |  | _____  |
| _____                          | D. Does the engine emit black smoke during acceleration?                    |                  |                  |                  |  | _____  |
|                                | E. type of DPM control devices  |                  |                  |                  |  | _____  |
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| Name of miner sampled<br>_____ | B. Identification #   |                  |                  |                  |  | _____  |
| _____                          | C. equipment condition  |                  |                  |                  |  | _____  |
| _____                          | D. Does the engine emit black smoke during acceleration?                    |                  |                  |                  |  | _____  |
|                                | E. type of DPM control devices  |                  |                  |                  |  | _____  |
| Sample Cassette No.<br>_____   | A. type or description  |                  |                  |                  |  | _____  |
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| _____                          | C. equipment condition  |                  |                  |                  |  | _____  |
| _____                          | D. Does the engine emit black smoke during acceleration?                    |                  |                  |                  |  | _____  |
|                                | E. type of DPM control devices  |                  |                  |                  |  | _____  |