

MINE: _____

**DIESEL EQUIPMENT
200-HOUR
MAINTENANCE RECORD**

MACHINE: _____

Beginning

Ending

DATE _____

HOUR
METER _____

200-HOUR MAINTENANCE CHECKLIST-

Engine Serial Number _____

- _____ Set the park brake and wash or steam clean the equipment
- _____ Check for and remove any accumulated coal or fluids
- _____ Inspect brakes, safety chains, reflectors
- _____ Repair damaged or missing intake or exhaust components, heat shields or shutdown controls
- _____ Check electrical equipment, E-stop, breakers, fuses, battery switch and repair as necessary
- _____ Change engine oil and filter
- _____ Check transmission fluid and add if necessary
- _____ Check hydraulic fluid and add if necessary
- _____ Check all other fluid levels and add if necessary
- _____ Check for and repair oil, coolant or other fluid leaks
- _____ Check the cooling fan, radiator, and fan shroud for obstructions or bent blades and repair
tighten or replace all belts as necessary
- _____ Check battery and service as needed
- _____ Check automatic fire suppression system and recharge or repair if defective
- _____ Check portable fire extinguisher(s) and replace if missing or defective
- _____ Check front and rear headlights, horn, dash instruments and replace or repair if defective

Keep brake set, secure the machine against movement and start the engine

- _____ Check the oil pressure
- _____ Check intake restriction at full engine speed and replace intake filter(s) if necessary. Normal intake restriction is _____ inches.
- _____ Check engine back pressure at full engine speed and replace or clean the soot filter if necessary. Normal back pressure is _____ inches.
- _____ Test engine shutdown controls and repair or replace if defective
- _____ Conduct 90 SECOND untreated and treated load tests and record readings
- _____ Evaluate emission test data, make necessary repairs or remove the equipment from service
- _____ Measure smoke in the treated exhaust to check soot filter performance. Be sure smoke number is less than 3. Current smoke number is _____.
- _____ Be sure surface **and** exhaust gas temperatures are less than 302 degrees F.
- _____ Perform all additional service as required by the manufacturer's service instructions
- _____ Fill out this 200-Hour Record, the CO Emissions Form, and the Repair & Maintenance Form

Engine hours at time of service _____ Date _____ Time _____ a.m. / p.m.

Signature of qualified diesel mechanic _____ Date _____

Countersigned

by _____ Mine Foreman__ or Mine Electrician__ Date _____

Attach emissions printout here or emissions chart if available

200-Hour Carbon Monoxide Emissions Form For Diesel Powered Equipment

Engine # _____

Form must be filled out by a qualified diesel mechanic as part of the CO emissions record. Engine must be at operating temperature before test. Emissions readings should be taken for 90 seconds at 30 second intervals once oxygen drops to 10% or when CO 2 is between 8 to 10% (10 to 12% for engine without turbo).

At start of test:

Engine Speed _____ RPM
 Engine Temperature _____ F
 Transmission Temperature _____ F
 Maximum Intake Restriction (at high Idle) _____ " wg
 Maximum Exhaust Back Pressure (at high idle)..... _____ " wg
 Maximum Exhaust Temperature _____ F

	CO2/CO2	Untreated CO	Treated CO
1 st 30 seconds ___/___ _____ _____
2 nd 30 seconds ___/___ _____ _____
3 rd 30 seconds ___/___ _____ _____

Average Untreated CO _____ Treated CO _____

Engine hour reading _____ Date _____ Time _____ a.m. / p.m.
 Person performing emissions test _____

Countersigned by _____ Mine Foreman ___ or Mine Electrician

Date _____

Diesel Powered Equipment Repair and Maintenance Form

MACHINE: _____

Note: Diesel Mechanics should use this form to list all repairs or maintenance performed during each 200-hour scheduled service, or any additional maintenance or repair required between service intervals.

Description of maintenance or repair

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Engine Hour Reading _____ Date _____ Time _____ a.m. ___ p.m. ___

Person performing
maintenance or repair(s) _____ Date _____

Countersigned

by _____ Mine foreman__ or Mine electrician__ Date _____