

Mine Name:

<p style="text-align: center;">DIESEL EQUIPMENT 200-HOUR MAINTENANCE RECORD</p>

Machine Number and Type:

<p style="text-align: center;">Beginning</p>

<p style="text-align: center;">Ending</p>

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, and 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, write date on new oil filter, also update next service interval tag.
- 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 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 treaded load tests and record readings.
- Evaluate emission test data, make necessary repairs, or remove the equipment from service.
- Measure smoke in the treaded exhaust to check soot filter performance. Be sure some 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 Chief Electrician

Date: _____

Attach emissions printout here or emission chart if available.

200-HOUR CARBON MONOXIDE EMISSIONS FORM FOR DIESEL POWERED EQUIPMENT

MACHINE TYPE: _____

Form must be filled out by a qualified diesel mechanic as part of the CO emissions record. Engine must be operating temperature before test. Emissions readings should be taken at one-minute intervals once oxygen drops to 10% or when CO2 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 Restrictions (at high Idle) "wg
 Maximum Exhaust Back Pressure (at high Idle) "wg
 Maximum Exhaust Temperature _____ F

Emissions Readings: Treated or Untreated

	CO2 / CO2		Untreated CO		Treated CO	
1 st 30 Second	____/____	_____	_____
2 nd 30 Second	____/____	_____	_____
3 rd 30 Second	____/____	_____	_____

Average Untreated: _____ Treated: _____

Engine hour reading: _____ Date: _____ Time: _____ a.m. / p.m.

Person performing emissions test: _____

Countersigned

by: _____ Mine Foreman or Chief Electrician

Date: _____

Diesel Powered Equipment Repair and Maintenance Form

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 repairs: _____ Date: _____

Countersigned
by: _____ Mine Foreman or Chief Electrician

Date: _____