



NATEF Task List - Medium/Heavy Duty Truck Preventive Maintenance

Name: _____
Date: _____

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VII. PREVENTIVE MAINTENANCE and INSPECTION

A. Engine System 1. Engine		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	1. Check engine starting/operation (including unusual noises, vibrations, exhaust smoke, etc.); record idle and governed rpm.													
P-1	2. Inspect vibration damper.													
P-1	3. Inspect belts, tensioners, and pulleys; check and adjust belt tension; check belt alignment.													
P-1	4. Check engine oil level and condition; check dipstick seal.													
P-1	5. Inspect engine mounts for looseness and deterioration.													
P-1	6. Check engine for oil, coolant, air, fuel, and exhaust leaks (Engine Off and Running).													
P-1	7. Check engine compartment wiring harnesses, connectors, and seals for damage and proper routing.													



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A. Engine System 2. Fuel System		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	1. Check fuel tanks, mountings, lines, caps, and vents.													
P-1	2. Drain water from fuel system.													
P-1	3. Service water separator/fuel heater; replace fuel filter(s); prime and bleed fuel system.													

A. Engine System 3. Air Induction and Exhaust System		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	1. Check exhaust system mountings for looseness and damage.													
P-1	2. Check engine exhaust system for leaks, proper routing, and damaged or missing components to include exhaust gas recirculation (EGR) system and after treatment devices, if equipped.													
P-1	3. Check air induction system: piping, charge air cooler, hoses, clamps, and mountings; check for air restrictions and leaks.													
P-1	4. Inspect turbocharger for leaks; check mountings and connections.													



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A. Engine System 3. Air Induction and Exhaust System (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-2	5. Check operation of engine compression/exhaust brake.												
P-1	6. Service or replace air filter as needed; check and reset air filter restriction indicator.												
P-1	7. Inspect and service crankcase ventilation system.												
P-1	8. Inspect diesel exhaust fluid (DEF) system, to include tanks, lines, gauge pump, and filter.												
P-2	9. Inspect selective catalyst reduction (SCR) system; including diesel exhaust fluid (DEF) for proper levels, leaks, mounting and connections.												

A. Engine System 4. Cooling System		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Check operation of fan clutch.												
P-1	2. Inspect radiator (including air flow restriction, leaks, and damage) and mountings.												
P-1	3. Inspect fan assembly and shroud.												



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A. Engine System 4. Cooling System (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	4. Pressure test cooling system and radiator cap.												
P-1	5. Inspect coolant hoses and clamps.												
P-1	6. Inspect coolant recovery system.												
P-1	7. Check coolant for contamination, additive package concentration, aeration, and protection level (freeze point).												
P-1	8. Service coolant filter.												
P-1	9. Inspect water pump.												

A. Engine System 5. Lubrication System		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Change engine oil and filters; visually check oil for coolant or fuel contamination; inspect and clean magnetic drain plugs.												
P-1	2. Take an engine oil sample for analysis.												



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B. Cab and Hood 1. Instruments and Controls		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Inspect key condition and operation of ignition switch.												
P-1	2. Check warning indicators.												
P-1	3. Check instruments; record oil pressure and system voltage.												
P-2	4. Check operation of electronic power take off (PTO) and engine idle speed controls (if applicable).												
P-1	5. Check HVAC controls.												
P-1	6. Check operation of all accessories.												
P-1	7. Using electronic service tool(s) or on-board diagnostic system; retrieve engine monitoring information; check and record diagnostic codes and trip/operational data (including engine, transmission, ABS, and other systems).												

B. Cab and Hood 2. Safety Equipment		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Check operation of electric/air horns and reverse warning devices.												



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B. Cab and Hood 2. Safety Equipment (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	2. Check operation of electric/air horns and reverse warning devices.												
P-1	3. Check condition of spare fuses, safety triangles, fire extinguisher, and all required decals.												
P-1	4. Inspect seat belts and sleeper restraints.												
P-1	5. Inspect wiper blades and arms.												

B. Cab and Hood 3. Hardware		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Check operation of wiper and washer.												
P-1	2. Inspect windshield glass for cracks or discoloration; check sun visor.												
P-1	3. Check seat condition, operation, and mounting.												
P-1	4. Check door glass and window operation.												



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B. Cab and Hood 3. Hardware (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	5. Inspect steps and grab handles.												
P-1	6. Inspect mirrors, mountings, brackets, and glass.												
P-2	7. Record all observed physical damage.												
P-2	8. Lubricate all cab and hood grease fittings.												
P-1	9. Inspect and lubricate door and hood hinges, latches, strikers, lock cylinders, safety latches, linkages, and cables.												
P-1	10. Inspect cab mountings, hinges, latches, linkages and ride height; service as needed.												

B. Cab and Hood 4. Heating, Ventilation, & Air Conditioning (HVAC)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-2	1. Inspect A/C condenser and lines for condition and visible leaks; check mountings.												
P-2	2. Inspect A/C compressor and lines for condition and visible leaks; check mountings.												



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B. Cab and Hood 4. Heating, Ventilation, & Air Conditioning (HVAC) (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	3. Check A/C system condition and operation; check A/C monitoring system, if applicable.												

P-1	4. Check HVAC air inlet filters and ducts; service as needed.												
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C. Electrical/Electronics 1. Battery and Starting Systems		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Inspect battery box(es), cover(s), and mountings.												

P-1	2. Inspect battery hold-downs, connections, cables, and cable routing; service as needed.												
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P-1	3. Check/record battery state-of-charge (open circuit voltage) and condition.												
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P-1	4. Perform battery test (load and/or capacitance).												
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P-1	5. Inspect starter, mounting, and connections.												
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P-1	6. Engage starter; check for unusual noises, starter drag, and starting difficulty.												
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C. Electrical/Electronics 2. Charging System		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	1. Inspect alternator, mountings, cable, wiring, and wiring routing; determine needed action.													
P-1	2. Perform alternator output tests.													

C. Electrical/Electronics 3. Lighting System		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	1. Check operation of interior lights; determine needed action.													
P-1	2. Check all exterior lights, lenses, reflectors, and conspicuity tape; check headlight alignment; determine needed action.													
P-1	3. Inspect and test tractor-to-trailer multi-wire connector(s), cable(s), and holder(s); determine needed action.													

D. Frame and Chassis 1. Air Brakes		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	1. Check operation of parking brake.													
P-1	2. Record air governor cut-in and cut-out setting (psi).													
P-1	3. Check operation of air reservoir/tank drain valves.													



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D. Frame and Chassis 1. Air Brakes (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	4. Check air system for leaks (brakes released).												
P-1	5. Check air system for leaks (brakes applied).												
P-1	6. Test one-way and double-check valves.												
P-1	7. Check low air pressure warning devices.												
P-1	8. Check emergency (spring) brake control/modulator valve, if applicable.												
P-1	9. Check tractor protection valve.												
P-1	10. Test air pressure build-up time.												
P-1	11. Inspect coupling air lines, holders, and gladhands.												
P-1	12. Check brake chambers and air lines for secure mounting and damage.												
P-1	13. Check operation of air drier.												



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		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	14. Inspect and record brake shoe/pad condition, thickness, and contamination.													
P-1	15. Inspect and record condition of brake drums/rotors.													
P-1	16. Check antilock brake system wiring, connectors, seals, and harnesses for damage and proper routing.													
P-1	17. Check operation and adjustment of brake automatic slack adjusters (ASA); check and record push rod stroke.													
P-1	18. Lubricate all brake component grease fittings.													
P-2	19. Check condition and operation of hand brake (trailer) control valve, if applicable.													
P-1	20. Perform antilock brake system (ABS) operational system self-test.													
P-1	21. Drain air tanks and check for contamination.													
P-1	22. Check condition of pressure relief (safety) valves.													



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D. Frame and Chassis 2. Hydraulic Brakes		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	1. Check master cylinder fluid level and condition.													
P-1	2. Inspect brake lines, fittings, flexible hoses, and valves for leaks and damage.													
P-1	3. Check parking brake operation; inspect parking brake application and holding devices; adjust as needed.													
P-1	4. Check operation of hydraulic system: pedal travel, pedal effort, pedal feel.													
P-1	5. Inspect calipers for leakage, binding and damage.													
P-1	6. Inspect brake assist system (booster), hoses and control valves; check reservoir fluid level and condition.													
P-1	7. Inspect and record brake lining/pad condition, thickness, and contamination.													
P-1	8. Inspect and record condition of brake rotors.													



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		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	9. Check antilock brake system wiring, connectors, seals, and harnesses for damage and proper routing.													

D. Frame and Chassis 3. Drive Train		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	1. Check operation of clutch, clutch brake, and gearshift.													
P-1	2. Check clutch linkage/cable for looseness or binding, if applicable.													
P-1	3. Check hydraulic clutch slave and master cylinders, lines, fittings, and hoses, if applicable.													
P-1	4. Check clutch adjustment; adjust as needed.													
P-1	5. Check transmission case, seals, filter, hoses, lines and cooler for cracks and leaks.													
P-1	6. Inspect transmission breather.													
P-1	7. Inspect transmission mounts.													



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		1	2	3	4	5	6	7	8	9	10	11	12
P-1	8. Check transmission oil level, type, and condition.												
P-1	9. Inspect U-joints, yokes, driveshafts, boots/seals, center bearings, and mounting hardware for looseness, damage, and proper phasing.												
P-1	10. Inspect axle housing(s) for cracks and leaks.												
P-1	11. Inspect axle breather(s).												
P-1	12. Lubricate all drive train grease fittings.												
P-1	13. Check drive axle(s) oil level, type, and condition.												
P-2	14. Change drive axle(s) oil and filter/screen, if applicable; check and clean magnetic plugs.												
P-1	15. Check transmission wiring, connectors, seals, and harnesses for damage and proper routing.												
P-2	16. Change transmission oil and filter, if applicable; check and clean magnetic plugs.												



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		1	2	3	4	5	6	7	8	9	10	11	12
P-1	17. Check interaxle differential lock operation.												
P-1	18. Check transmission range shift operation.												

D. Frame and Chassis 4. Suspension and Steering Systems		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Check steering wheel operation for free play and binding.												
P-1	2. Check power steering pump, mounting, and hoses for leaks, condition, and routing; check fluid level.												
P-1	3. Change power steering fluid and filter.												
P-1	4. Inspect steering gear for leaks and secure mounting.												
P-1	5. Inspect steering shaft U-joints, pinch bolts, splines, pitman arm-to-steering sector shaft, tie rod ends, and linkages.												
P-1	6. Check kingpins for wear.												
P-1	7. Check wheel bearings for looseness and noise.												



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D. Frame and Chassis 4. Suspension and Steering Systems (continued)		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	8. Check oil level and condition in all non-drive hubs; check for leaks.												
P-1	9. Inspect springs, pins, hangers, shackles, spring U-bolts, and insulators.												
P-1	10. Inspect shock absorbers for leaks and secure mounting.												
P-1	11. Inspect air suspension springs, mounts, hoses, valves, linkage, and fittings for leaks and damage.												
P-1	12. Check and record suspension ride height.												
P-1	13. Lubricate all suspension and steering grease fittings.												
P-1	14. Check axle locating components (radius, torque, and/or track rods).												
P-1	1. Inspect tires for wear patterns and proper mounting.												
P-1	2. Inspect tires for cuts, cracks, bulges, and sidewall damage.												



NATEF Task List - Medium/Heavy Duty Truck Preventive Maintenance

Name: _____
Date: _____

For every task in *Preventive Maintenance and Inspection*, the following safety task must be strictly enforced: Comply with personal and environmental safety practices associated with clothing; eye protection; hand protection; proper lifting practices; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of fuels/chemicals/materials in accordance with federal, state, and local regulations.

The tasks included in the Preventive Maintenance and Inspection area are entry-level technician inspection tasks designed to introduce the student to correct procedures and practices of vehicle inspection in a teaching/learning environment. They are not intended to satisfy the Annual Federal Vehicle Inspection requirement as prescribed in the *Federal Motor Carrier Safety Regulations, Part 396, Appendix G to Subchapter B, Minimum Periodic Inspection Standards*.

The first task in Preventive Maintenance is to listen to and verify operator's concern, review past maintenance documents, and record condition on appropriate document.

D. Frame and Chassis 5. Tires and Wheels		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	3. Inspect valve caps and stems; determine needed action.												
P-1	4. Measure and record tread depth; probe for imbedded debris.												
P-1	5. Check and record air pressure; adjust air pressure in accordance with manufacturers' specifications.												
P-1	6. Check wheel mounting hardware; determine needed action.												
P-1	7. Inspect wheels for cracks, damage and proper hand hold alignment.												
P-1	8. Check tire matching (diameter and tread) on single and dual tire applications.												

D. Frame and Chassis 6. Frame and Fifth Wheel		Week											
		1	2	3	4	5	6	7	8	9	10	11	12
P-1	1. Inspect fifth wheel mounting, bolts, air lines, and locks.												
P-1	2. Test operation of fifth wheel locking device; adjust if necessary.												



NATEF Task List - Medium/Heavy Duty Truck Preventive Maintenance

Name: _____
Date: _____

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The first task in Preventive Maintenance is to listen to and verify operator's concern, review past maintenance documents, and record condition on appropriate document.

D. Frame and Chassis 6. Frame and Fifth Wheel (continued)		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
P-1	3. Check quarter fenders, mud flaps, and brackets.													
P-2	4. Check pintle hook assembly and mounting, if applicable.													
P-1	5. Lubricate all fifth wheel grease fittings and plate, of applicable.													
P-1	6. Inspect frame and frame members for cracks and damage.													