

## **Trucks**

### **DAILY PM CHECKLIST FOR ALL TRUCKS**

#### **BEFORE STARTING ENGINE**

1. Check the oil, coolant, and power steering fluid levels.
2. Inspect belts, hoses, and PTO shaft.
3. Check for visible signs of leaking at the radiator, power steering pump, steering gear(s), water pump, engine, and brake master cylinder.
4. Walk around the truck and check for loose lug nuts, low tires, damage to wheels, steering linkage, suspension, air lines, brake chambers, slack adjusters, brake drums, drive shaft, exhaust system, battery box, and frame.
5. Check for visible leaks from the transmission, fuel tank, rear axle housing, wheel seals, and hydraulic system.
6. Drain moisture from air tanks and fuel water separator.
7. Check all lights for operation and clean if necessary to include strobe warning lights.
8. Clean windshield and mirrors.
9. Check clutch free travel.
10. Make sure that parking brake is set and the transmission is in neutral.

#### **START ENGINE**

1. Check engine gauges to ensure all systems are operating properly.
2. Check operation of air brakes, windshield wipers, 2-way radio, horn, heater/defroster, and adjust mirrors.
3. Check air filter restriction gauge.
4. Check automatic transmission fluid level, if equipped.

Refer to truck operator's manual for any other vehicle specific daily requirements.

#### **AFTER EVERY 50 HOURS OF OPERATION**

Lubricate all grease fittings.

**H PM SERVICE CHECKLIST** - WHICH IS PERFORMED EVERY 500 HOURS OR TWO YEARS (EVERY 100 HOURS FOR ALL TRUCKS WITH GAS ENGINES AND 200 HOURS FOR ALL F550 OR 5500 SERIES AND UNDER TRUCKS WITH DIESEL ENGINES) Use 5W-40 synthetic oil available through OMB Contract #077 in all diesel engines.

- CHANGE ENGINE OIL AND FILTER
- LUBRICATE ALL GREASE FITTINGS
- CHECK/FILL ALL FLUID LEVELS
- BATTERY
- COOLANT SYSTEM
- POWER STEERING
- WASHER FLUID
- MASTER CYLINDER
- TRANSMISSION
- TRANSFER CASE
- DIFFERENTIAL(S)
- HUB OILERS
- HYDRAULIC RESERVOIR
- CHECK ALL LIGHTS
- INSPECT TIRES
- INSPECT AIR BRAKES FOR ADJUSTMENT
- CLEAN BATTERY TERMINALS
- CHECK FRONT WHEELS FOR LOOSE BEARINGS
- INSPECT DIFFERENTIAL LUBE FILTER AND REPLACE IF RUSTED OR CORRODED OTHERWISE REPLACE ANNUALLY
- SAFETY INSPECTION
- DIESEL ENGINES: DCA TEST COOLANT SYSTEM, REPLACE COOLANT FILTER OR ADD CONDITIONER IF NEEDED. IF COOLANT IS EXTENDED LIFE, ADD EXTENDER AT 3 YEARS AND CHANGE COOLANT AT 6 YEARS

**ALLISON PM INSPECTION** – WHICH IS PERFORMED EVERY 36 MONTHS

- CHANGE ALLISON AUTOMATIC TRANSMISSION FLUID USING APPROVED SYNTHETIC TRANSMISSION FLUID AND NEW FILTERS.

## **DOT PM INSPECTION – WHICH IS PERFORMED ANNUALLY**

- NDDOT TRUCK FLEET INSPECTION FOR ALL TRUCKS/BUSES 26,001 GVWR AND OVER USING STATE FLEET SERVICES PROVIDED NDDOT ANNUAL TRUCK INSPECTION CHECKLIST (Available on State Fleet Website)
- NOTE: IF TRUCK/BUS IS USED TO TRAVEL TO OUT OF STATE DESTINATIONS (OTHER THAN BORDERING CITIES) PERFORM THE FEDERAL MOTOR CARRIERS ASSOCIATION (FMCA) DOT INSPECTION AND APPLY FMCA DOT STICKER

## **J PM INSPECTION TO EXERCISE SEASONAL UNITS**

All Rotary Snow Plows

All rotary snow plows should be exercised once every 60 days. Exercising should consist of slow and fast idle for about five minutes and the balance of an hour driving on the road. Enter one hour on the vehicle use report and submit.

## **K PM SERVICE FOR CAT DIESEL ENGINES - WHICH IS PERFORMED ALONG WITH AN H PM SERVICE AT THE ENGINE HOURS LISTED BELOW BASED ON ENGINE MODEL**

### **Cat 3116 Engine Service**

- 1000, 5000, 7000, 11,000, 13,000 hours
  - 44-054 Check/Adjust injector timing
  - 45-049 Check/Adjust valve lash
- 2000, 4000, 8000, 10,000, 14,000 hours
  - 41-044 Inspect turbo charger
  - 41-100 Inspect after cooler
  - 42-049 Service coolant system
  - 45-100 Inspect vibration damper
- 3000, 9000, 15000 hours
  - 13-022 Inspect air compressor
  - 42-049 Inspect water pump
  - 42-049 Inspect fan hub and fan clutch
  - 44-054 Test injector rack synchronization
  - 44-054 Clean, test, calibrate injectors
  - 45-049 Check/Adjust valve lash

6000, 12,000 hours

- 13-022 Inspect air compressor
- 41-044 Inspect turbo charger
- 41-100 Inspect after cooler
- 42-049 Service coolant system
- 42-049 Inspect water pump
- 42-049 Inspect fan hub and fan clutch
- 44-054 Check/Adjust injector timing
- 44-054 Clean, test, calibrate injectors
- 45-049 Check/Adjust valve lash
- 45-053 In-frame overhaul (subject to oil consumption and/or analysis)
- 45-100 Inspect vibration damper

### **Cat C-12 Engine Service**

750 hours

- 44-054 Check/Adjust injector preload
- 45-049 Check/Adjust valve lash

4000, 8000, 12,000, 16,000 hours

- 13-022 Inspect air compressor
- 41-044 Inspect turbo charger
- 41-100 Inspect after cooler
- 42-049 Service coolant system
- 42-049 Replace thermostat
- 42-049 Lube fan hub
- 44-054 Check/Adjust injector preload
- 45-049 Check/Adjust valve lash
- 45-100 Inspect vibration damper

**L PM SERVICE FOR CUMMINS DIESEL ENGINES - WHICH IS PERFORMED ALONG WITH AN H PM SERVICE AT THE ENGINE HOURS LISTED BELOW BASED ON ENGINE MODEL**

### **Cummins 855, L-10, M-11, N-14 Engine Service**

1500, 3000, 4500, 7500, 9000, 10,500, 13,500, 15,000 hours

- 41-044 Check torque on turbo charger mounting bolts
- 44-054 Check/Adjust injector preload
- 45-049 Check/Adjust valve lash
- 45-100 Check torque on engine mounting bolts and inspect mounts

6000, 12,000 hours

- 13-022 Inspect air compressor
- 41-044 Inspect turbo charger
- 41-044 Check torque on turbo charger mounting bolts
- 42-049 Inspect water pump
- 42-049 Service coolant system
- 42-049 Inspect fan hub
- 44-054 Clean, test, and calibrate injectors
- 45-049 Check/Adjust valve lash
- 45-100 Check torque on engine mounting bolts and inspect mounts
- 45-100 Inspect vibration damper
- 45-100 Clean / calibrate STC hydraulic tappets and STC oil control valve (855 & M-11 only)

### **Cummins B-5.9, C-8.3, ISB, ISC Engine Service**

1000, 3000, 5000, 7000, 9000, 11,000, 13,000, 15,000 hours

- 42-049 Inspect fan hub
- 45-049 Check/Adjust valve lash

2000, 4000, 6000, 8000, 10,000, 12,000, 14,000 hours

- 42-049 Inspect fan hub
- 42-049 Service coolant system
- 45-049 Check/Adjust valve lash
- 45-100 Inspect vibration damper

### **Cummins ISL, ISM, M-11 Plus Engine Service**

3000, 9000, 15,000 hours

- 44-054 Check/Adjust injector
- 45-049 Check/Adjust valve lash

6000, 12,000 hours

- 13-022 Inspect air compressor
- 41-044 Inspect turbo charger
- 42-049 Service coolant system
- 44-054 Check/Adjust injectors
- 45-049 Check/Adjust valve lash
- 45-100 Inspect vibration damper

**M PM SERVICE FOR DETROIT DIESEL ENGINES** - PERFORMED ALONG WITH AN H PM SERVICE AT THE ENGINE HOURS LISTED BELOW BASED ON ENGINE MODEL

**Detroit 8.2L, 60, 71, 92 Series Engine Service**

2000 hours

- 41-044 Inspect turbo charger
- 44-054 Check/Adjust injectors
- 45-049 Check/Adjust valves
- 45-100 Check and record crankcase and oil pressures (60 series only)

**N PM SERVICE FOR FORD DIESEL ENGINES-** PERFORMED ALONG WITH AN H PM SERVICE AT THE ENGINE HOURS LISTED BELOW BASED ON ENGINE MODEL

**Ford 7.3L, 7.8L, 1460 Engine Service**

500 hours

- 45-049 Check/Adjust valve lash

2000, 3500, 6500, 8000, 11,000, 12,500, 15,500 hours

- 42-049 Service coolant system
- 45-049 Check/Adjust valve lash
- 5000, 9500, 14,000 hours
- 41-044 Inspect turbo charger
- 42-049 Service coolant system
- 44-054 Replace injectors
- 45-049 Check/Adjust valve lash
- 45-100 Inspect / Replace lower engine bearings (subject to oil consumption and/or analysis)

**P PM SERVICE FOR INTERNATIONAL DIESEL ENGINES** - WHICH IS PERFORMED ALONG WITH AN H PM SERVICE AT THE ENGINE HOURS LISTED BELOW BASED ON ENGINE MODEL

**International DT-360, DT-466(E), 530(E), 570 Engine Service**

750, 2750, 4750, 6750, 8750, 10750, 12750, 14750 hours

- 45-049 Check/Adjust valves
- 3750, 11250 hours
- 41-100 Pressure check induction system
- 42-049 Service coolant system
- 45-100 Inspect vibration damper
- 45-100 Measure crankcase pressure

5000, 10,000, 15,000 hours

- 41-100 Measure intake manifold pressure

7500, 15,000 hours

- 41-044 Inspect turbo charger
- 42-049 Service coolant system
- 44-054 Clean, test and calibrate injectors (except E engines)
- 45-100 Inspect vibration damper

9500 hours

- 45-100 Lower bearing replacement (subject to oil consumption and/or oil analysis)

### **International T444E Engine Service**

3750, 11,250 hours

- 41-100 Pressure check induction system
- 42-049 Service coolant system
- 45-100 Inspect vibration damper

7500, 15,000 hours

- 41-044 Inspect turbo charger
- 42-049 Service coolant system
- 45-100 Inspect vibration damper

### **International MaxxForce 11, 13, 15 Engine Service**

3,000, 6,000, 9,000, 12,000, 15,000 hours

- 44-054 Clean after-treatment fuel injector

7,500, 15,000 hours

- 45-049 Check/Adjust valves

**Q PM SERVICE FOR ISUZU DIESEL ENGINES** - WHICH IS PERFORMED ALONG WITH AN H PM SERVICE AT THE ENGINE HOURS LISTED BELOW BASED ON ENGINE MODEL

### **Isuzu TC3.9L Engine Service**

3000, 6000, 9000, 12,000, 15,000 hours

- 44-054 Check/Adjust injectors
- 45-049 Check/Adjust valves
- 45-049 Check/Adjust curb idle speed

**R PM SERVICE MACK DIESEL ENGINES** - WHICH IS PERFORMED ALONG WITH AN H PM SERVICE AT THE ENGINE HOURS LISTED BELOW BASED ON ENGINE MODEL

## **Mack AMI, MP7, MP8 Engine Service**

500 hours

- 45-049 Check/Adjust valves
- 45-049 Check/Adjust curb idle speed

5,000, 9,500, 14,000 hours

- 45-049 Check/Adjust valves
- 45-054 Replace injectors
- 45-044 Inspect turbo charger
- 45-054 Inspect belt tensioner

**S PM SERVICE MERCEDES DIESEL ENGINES** - WHICH IS PERFORMED ALONG WITH AN H PM SERVICE AT THE ENGINE HOURS LISTED BELOW BASED ON ENGINE MODEL

## **Mercedes MBE Engine Service**

500, 1500, 2500, 3500, 4500, 5500, 6500, 7500, 8500, 9500, 10,500, 11,500, 12,500, 13,500, 14,500 hours

- 45-049 Check/Adjust valves