

4. OPERATOR MAINTENANCE AND CARE

1. DAILY SAFETY INSPECTION

Before using a lift truck, it is the operator's responsibility to check its condition and be sure it is safe to operate.

Check for damage and maintenance problems; have repairs made before you operate the truck. Unusual noises or problems must be reported immediately to your supervisor or other designated authority.

Do not make repairs yourself unless you are trained in lift truck repair procedures and authorized by your employer. Have a qualified mechanic make repairs using genuine HYUNDAI or HYUNDAI-approved parts.

▲ Do not operate a truck if it is in need of repair. If it is in an unsafe condition, remove the key and report the condition to the proper authority. If the truck becomes unsafe in any way while you are operating it, stop operating the truck, report the problem immediately, and have it corrected.

Lift trucks should be inspected every eight hours, or at the start of each shift. In general, the daily inspection should include the visual and functional checks described on the followings.

▲ Leaking hydraulic oil may be hot or under pressure. When inspecting a lift truck, wear safety glasses and do not check for leaks with bare hands.

1) VISUAL CHECKS

First, perform a visual inspection of the truck and its major components;

- (1) Walk around your lift truck and take note of obvious damage that may have been caused by operation during the last shift.
- (2) Check that all capacity, safety, and warning plates or decals are attached and legible.
- (3) Check before and after starting engine for leaking fuel, engine coolant, transmission fluid, etc.
- (4) Check for hydraulic oil leaks and loose fittings.

▲ Do not use bare hands to check. Oil may be hot or under pressure.

- (5) Be sure that the driver's overhead guard, load back rest and all other safety devices are in place, securely fastened and undamaged. Inspect for damaged or missing parts, corrosion, cracks, breaks etc.
- (6) Check all of the critical components that handle or carry the load.
- (7) Look the mast and lift chains over. Check for obvious wear and maintenance problems such as damaged or missing parts, leaks, slack or broken chains, rust, corrosion, bent parts, cracks, etc.
- (8) Carefully inspect the load forks for cracks, breaks, bending, twists, and wear. Be sure that the forks are correctly installed and locked in their proper position.
- (9) Inspect the wheels and tires for safe mounting, wear condition, and air pressure.
- (10) Check the hydraulic sump oil level, engine oil level, and fuel level.

2) FUNCTIONAL CHECKS

Check the operation of the truck as follows.

※ **Before performing these checks, familiarize yourself with the starting, operating, and shutdown procedures in Section 5 of this manual. Also, know the safety rules given in Section 1 of this manual.**

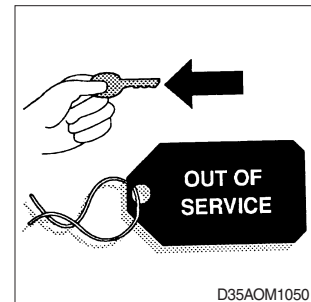
- (1) Test warning devices, horn, light, and other safety equipment and accessories.
- (2) Start the engine and be sure all controls and systems operate freely and return to neutral properly. Check the:
 - ① Gauges, meters, and indicator lights
 - ② Service brakes, inching pedal, and parking brakes
 - ③ Hydraulic controls: lift, tilt, and auxiliary (If installed)
 - ④ Accelerator
 - ⑤ Directional control
 - ⑥ Steering system
 - ⑦ Lift mechanism and any attachments.

When the functional check are completed, follow the **standard shutdown procedures** given in Section 5, **Starting and operating procedures**.

3) CONCLUDING THE INSPECTION

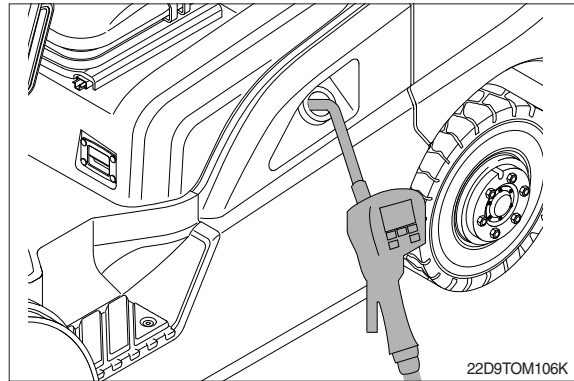
▲ **Do not operate a lift truck that has a maintenance problem or is not safe to operate.**

- (1) Instead, remove the key from the starting switch and put an **Out of service tag** on the truck.
- (2) If all of the daily inspection checks were normal or satisfactory, the truck can be operated.

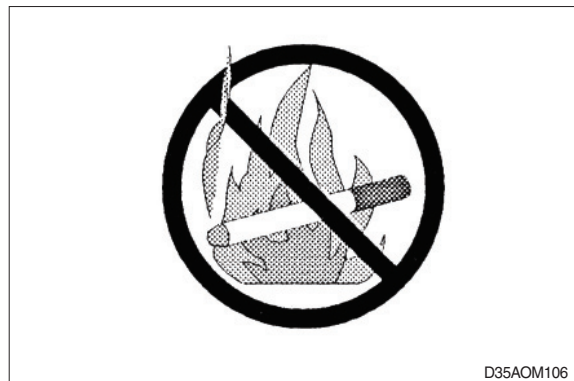


2. FUEL SAFETY PRACTICES

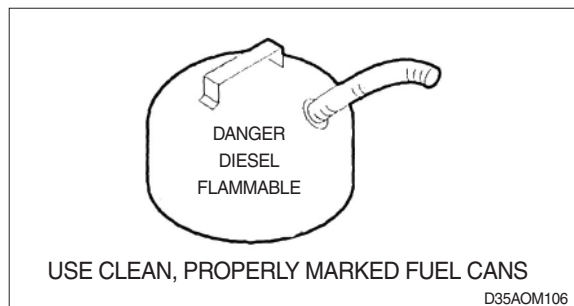
REFUELING DIESEL TRUCKS



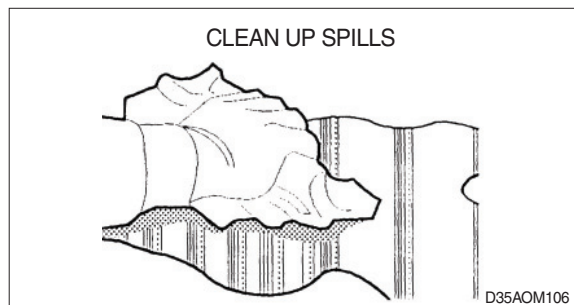
- ⚠ Stop the engine when refueling.
All lights and flames shall be kept at a safe distance while refueling.



- ⚠ Make sure that the fuel oil cans are kept cleaned and attached safety indication or letters on the can.



- ⚠ Wipe off the spilt fuel oil immediately.



3. ENGINE OIL SERVICE INTERVAL AND MANAGEMENT

It is the operator's responsibility to check its condition and be sure it is safe to operate. Please check engine oil condition periodically.

▲ Daily check

- Engine oil should be checked once a day before operation.

▲ Periodic check

- Service should be done whichever comes first from operating hours or usage period.
- Be sure to use prescribed engine oil.

Service item	Action	Service interval	
		General condition	Harsh condition
Engine oil and oil filter	Replace	Every 500 hours or 1year	Every 250 hours or 6 months

※ This oil service interval can be different by engine models.

Harsh condition is as follows.

1. Repeated short operation (repeated cold operation)
2. Frequent driving in sandy or dusty places
3. When using excessive engine idle
4. Frequent driving on uphill and downhill roads
5. Frequent driving with rapid acceleration/deceleration or continuous high-load
6. When operating in salt, corrosion or low temperature conditions