

DESO Oil Storage Tank - User & Installation Manual

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1. Introduction

This manual provides instructions for the safe **transport, installation, commissioning, use, inspection, and maintenance** of DESO oil tanks. It is intended for installers, operators, and maintenance personnel. Always comply with **local regulations, environmental laws, and fire safety codes** applicable in your jurisdiction.

Important: Only trained and competent persons should install or service the tank.

2. Safety Information

Heating oil is flammable; keep away from open flames and ignition sources - Never smoke near the tank

Do not modify the tank or fittings

Always wear suitable PPE (gloves, safety footwear, eye protection)

3. Environmental Protection

Prevent spills from reaching drains, watercourses, or soil

Take care to avoid spillages during filling and maintenance

Dispose of contaminated materials in accordance with local regulations

4. Transport & Handling

Transport the tank **empty only**

Do not roll or drag the tank

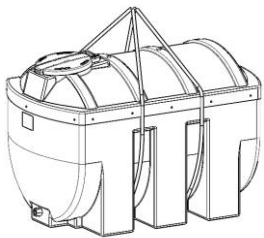
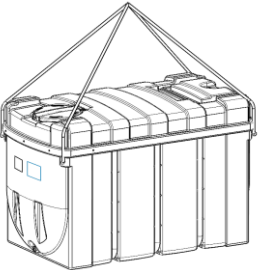
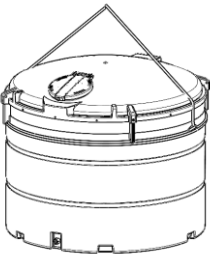
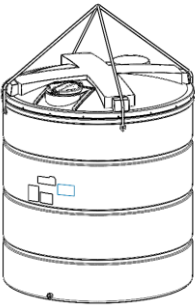
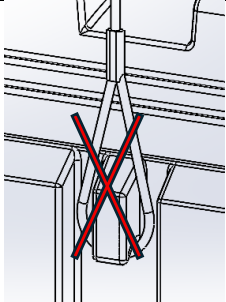
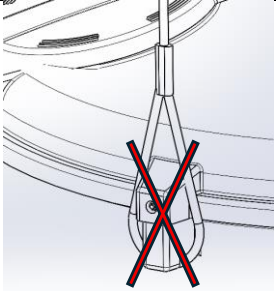
Ensure forklift or lifting equipment is rated for the tank weight

Take care not to damage the tank when using a forklift

When lifting tanks using an overhead crane, ensure safe lifting

through compliance with LOLER

See specific guidance below

Horizontal tanks		Vertical bunded tanks	
H1800BT, H1235BT	H1550BT, H2500BT	V1230BT, V1340BT, V2350BT, V3500BT, V5000BT	V9200BT
Approved Lifting			
	 Use lifting eyes provided with 4 slings / chains	 Wrap (2) slings around circumference of tank	 Use lifting eyes provided with 4 slings / chains
Prohibited lifting			
 Do not use integrated hook features to loop over slings		 Do not use integrated hook features to loop over slings	

5. Site Selection & Preparation

5.1. Location Requirements

Maintain minimum separation distances from buildings, boundaries, and ignition sources (as per local building regulations)

Protect from vehicle impact where applicable

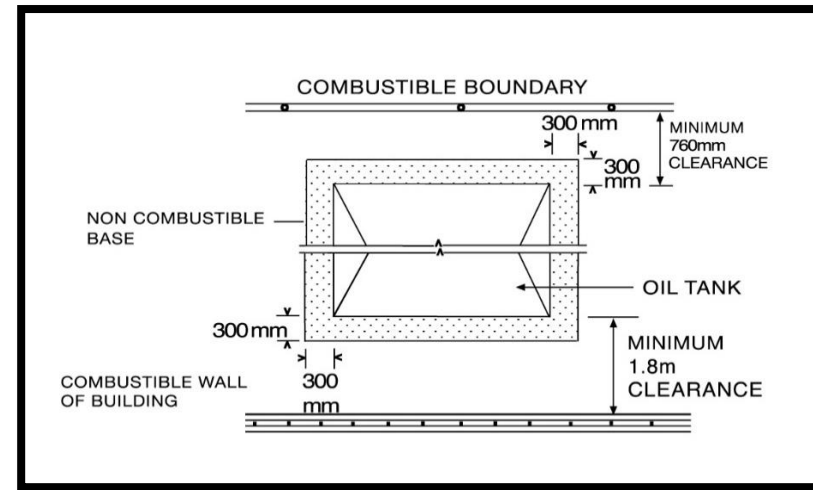
Protect from high winds, especially when the tank is near empty

5.2. Base/Foundation

Flat, level, and non-combustible base (e.g. concrete slab)
minimum 45mm thick

Base must extend 300mm beyond the tank footprint

Must support the **maximum filled weight** of the tank



6. Installation Instructions

6.1. Positioning

Place tank centrally on the prepared base

Ensure tank is level in all directions

Check clearance for inspection, filling, and maintenance

6.2. Pipework & Connections

Do not overtighten threaded fittings

Support all pipework independently of the tank

Note: Installation must comply with local building and environmental regulations.

7. Commissioning

Before first use:

- Inspect tank for damage

- Confirm all connections are secure

- Check bund (if applicable) is clean and dry

- Fill the tank slowly during first fill while monitoring for leaks.

8. Operating Instructions

Keep fill point locked when not in use

Monitor fuel level regularly

Do not exceed maximum fill level

9. Inspection & Maintenance

9.1. Routine Visual Checks (Recommended Monthly)

Check for corrosion or damage

Inspect valves, hoses, and fittings

Check bund for liquid

9.2. Annual Inspection

Full inspection by a competent person

Internal inspection if required by regulations

10. Decommissioning & Disposal

Drain all fuel and residues

Clean tank by approved contractor

Disconnect and cap connections

If using designated lifting points, check their integrity

Dispose or recycle in accordance with environmental legislation

Polyethylene tanks absorb fuel molecules so are not recommended for repurposing or standard plastic recycling

11. Emergency Procedures

In Case of Spill:

Stop the source immediately if safe to do so

Contain spill using absorbent materials

Prevent fuel entering drains

12. Limitations of Use

- Outdoor, above ground use
- Suitable for:
Grade A2 Gas Oil (BS2869), Grade D Gas Oil (BS2869), Grade C1 Kerosene (BS2869), Grade C2 Kerosene (BS2869), Diesel fuel (EN 590), Paraffinic diesel fuel (EN 15940), HVO (EN 15940)
- Not suitable for petrol
- Do not pressurise the tank