

Malfunctions, Causes and Remedies (diesel engine)

Engine will not start	
Possible cause	Remedy
Fuel tank empty.	Fill up the tank.
Fuel filter clogged, caused in winter by paraffin wax segregation.	Change the filter. Use winter fuel.
Water in the fuel filter.	Drain water from the fuel filter.
Fuel shut-off valve does not open.	Check with test lamp whether power present; if not, check the fuse and the shut-off valve.
Immobiliser active.	Contact your authorised dealer.
Leak in fuel line.	Check all fuel line connections for leaks and tighten screw joints.
The indicator unit does not light up.	Tighten connection terminals at the battery, check wiring connections.
Preheating system defective.	Check power supply, wiring and connections to the glow plug start switch. If this does not resolve the defect, please contact your authorised dealer.
Pump/nozzle unit defective. Engine idling speed incorrect.	This defect should be checked and remedied only by a trained technician. Please contact your authorised dealer.

Indicator light is illuminated: "Defect in electrical control system".	
Possible cause	Remedy
Defect in electrical control system	Defect can be determined using the diagnostics tester. Contact your authorised dealer.

Engine starting performance is poor	
Possible cause	Remedy
Battery power too low Battery terminals loose or oxidised, causing the starter motor to turn only slowly.	Have the battery checked, clean the connection terminals, tighten them and smear them with acid-free grease.
Fuel supply insufficient. Blockages or air locks in the fuel system, caused in winter by paraffin wax segregation.	Renew fuel filter, check fuel line connections for leaks and tighten clamping screws. In cold climates, use winter fuel.
Especially in winter: engine oil used is too viscous.	Use engine oil appropriate to the external temperature.

Particulate filter system fault warning light flashes and buzzer sounds when ignition is switched on.

Possible cause	Remedy
Switch illumination in the start switch or emergency stop switch for the particulate filter system defective.	Check the indicator lamp: switch on the glow plug start switch. Both switches should light up briefly once, if not, exchange the indicator lamp bulb. (Regeneration can still be performed even though the lamp is defective; acknowledge by pressing the start switch)
Fault in particulate filter system.	Please contact your authorised dealer.

"Particulate filter alarm" indicator light illuminates and the truck only moves at crawling speed

Possible cause	Remedy
Load period of the particulate filter exceeds 8.5 h.	Regenerate particulate filter immediately.

Engine runs rough and loses power.

Possible cause	Remedy
Fuel supply insufficient. Blockages or air locks in the fuel system, caused in winter by paraffin wax segregation.	Renew fuel filter, check fuel line connections for leaks and tighten clamping screws. In cold climates, use winter fuel.
Pump/nozzle unit is not operating correctly.	Contact your authorised dealer.
Engine oil level too high.	Drain oil until oil level is at upper dipstick mark.

Very smoky exhaust.

Possible cause	Remedy
Bad sealing by coked or broken piston rings.	Contact your authorised dealer.

Irregular idling.

Possible cause	Remedy
Fuel supply problems.	Drain water from or change fuel filter. Check fuel lines or fuel injector lines for leaks.
Engine speed incorrectly set.	The setting should be performed only by a trained technician. Please contact your authorised dealer.

Engine overheating, red indicator light in the indicator unit illuminates. Switch off engine immediately.

Possible cause	Remedy
Insufficient coolant in cooling system.	Check the cooling system for leaks, seal them as required. Top up the coolant fluid.
Coolant pump defective.	Contact your authorised dealer.
Water cooler radiator fins partially clogged by dirt or foreign bodies.	Clean water and hydraulic oil coolers.

Engine oil pressure too low. Switch off engine immediately.

Possible cause	Remedy
Leaks in the lubricating system.	Contact your authorised dealer.
Oil level too low	Top up with engine oil

Charging lamp comes on when truck is in operation.

Possible cause	Remedy
Three-phase alternator speed too low.	Check V-ribbed belt tension.
Alternator fails to charge the battery, alternator or control switch defective.	Contact your authorised dealer

Truck only moves at crawling speed, the buzzer sounds and error code X201 is displayed in the text field of the indicator unit.

Possible cause	Remedy
Engine oil level too low.	Top up engine oil.

Truck only moves at crawling speed, the buzzer sounds and error code X202 is displayed in the text field of the indicator unit.

Possible cause	Remedy
Engine oil pressure too low.	Top up engine oil; if the error persists, contact your authorised dealer.

Truck only moves at crawling speed, the buzzer sounds and error code X203 is displayed in the text field of the indicator unit.

Possible cause	Remedy
Radiator water level too low.	Top up radiator water.

Troubleshooting

The truck only moves at crawling speed and the level display lights up in the indicator unit.

Possible cause	Remedy
Radiator water level too low.	Top up radiator water.

Truck only moves at crawling speed, the buzzer sounds and error code X2 04 is displayed in the text field of the indicator unit.

Possible cause	Remedy
Engine temperature too high.	Top up radiator water. Water pump defective. Clean the water cooler. Adjust the fuel injection system.

Malfunctions, causes, remedies (hydraulic equipment)

Abnormal noises.	
Possible cause	Correction
Clogged suction filter.	Replace the filter.
Leaks in the suction pipe line, oil foaming.	Seal the pipe line. Check the hydraulic oil level, top up as necessary.
Hydraulic pump or motor damage, defective seals, causing air to be drawn in.	Have the hydraulic power unit checked by your authorised dealer.
Incorrect oil viscosity, insufficient oil in the tank or hydraulic pump.	Change the hydraulic oil; ensure the oil has the specified viscosity. Top up hydraulic oil.

No pressure or insufficient pressure in the system.	
Possible cause	Correction
Suction line damaged, noisy.	Change the hydraulic oil, top up the hydraulic oil.
Defective pump, loss of pressure, pressure valves fail to close, valve seat damaged.	Contact your authorised dealer.
Pipe line broken or leaking.	Replace pipe line or seal it.
Oil too thin, causing excessive leakage losses.	Change the hydraulic oil; ensure the oil has the specified viscosity.
Oil temperature indicator lights up.	Check hydraulic oil level, clean hydraulic oil cooler.

Oil pressure fluctuations.	
Possible cause	Correction
Causes as for abnormal noises.	See under abnormal noises.
Pressure relief valve or feed pressure valves jamming.	Please contact your authorised dealer.
Lift and tilt cylinders exhibit chafe points.	Please contact your authorised dealer.
Lift mast does not extend fully, or leans back somewhat.	Top up hydraulic oil. Bleed the cylinders.

No flow or insufficient flow.	
Possible cause	Correction
Clogged filters (if noises also occur at the same time).	Clean the filter or replace it.
Defective pump, loss of pressure, pressure valves fail to close, valve seat damaged.	Contact your authorised dealer.
Pipe line broken or leaking.	Replace pipe line or seal it.

Troubleshooting

No flow or insufficient flow.

Possible cause	Correction
Valves clogged.	Contact your authorised dealer.
Hydraulic system overheats.	Check the hydraulic oil level, use the specified hydraulic oil, clean the hydraulic oil cooler.

Hydraulic oil temperature too high.

Possible cause	Correction
Pump damage, valves leaking.	Contact your authorised dealer.
Insufficient oil in the tank or oil cooler clogged.	Check the hydraulic oil level, top up with hydraulic oil if necessary. Clean the hydraulic oil cooler and check for leaks, if defective contact your authorised dealer.

Truck is still running only at crawling speed, the buzzer sounds and error code X2 0 5 is displayed in the text field of the indicator unit

Possible cause	Correction
Hydraulic oil temperature too high.	Check the hydraulic oil level Clean the hydraulic oil cooler.

Malfunction in the third auxiliary hydraulic system (special equipment).

Possible cause	Correction
Truck running in crawler mode. Error code L 2 4 7 is displayed in the indicator unit and the buzzer sounds. Switchable auxiliary hydraulic functions are blocked.	Solenoid valve slider jamming. Wiring damaged. Short circuit. Please contact your authorised dealer.

Technical data

Type sheet H 25, as at 05/2008

1 Identification			
1.1	Manufacturer		Linde
1.2	Manufacturer's model designation		H 25 D
1.3	Drive		Diesel
1.4	Operation		Seated
1.5	Load capacity / Load	Q [kg]	2500
1.6	Load centre of gravity	c [mm]	500
1.8	Load distance	x [mm]	445
1.9	Wheelbase	y [mm]	1905

2 Weight			
2.1	Tare weight	kg	3870
2.2	Axle weight with front/rear load	kg	5670 / 700
2.3	Axle weight without front/rear load	kg	1930 / 1940

3 Wheels, chassis frame			
3.1	Front/rear tyres: polyurethane, rubber		SE
3.2	Tyre size, front		27x10-12 ¹
3.3	Tyre size, rear		23x9-10 ²
3.5	Wheels, number, front/rear (x = driven)		2x (4x)/2 ³
3.6	Front track width	b10 [mm]	1008 (1204) ^{4, 5}
3.7	Track width, rear	b11 [mm]	932

4 Basic dimensions			
4.1	Forward/backward fork tilt	α/β (°)	5.0/8.0 ⁶
4.2	Lowered mast height	h1 [mm]	2264 ⁷
4.3	Free lift	h2 [mm]	150

¹ Optional: 7.00-12 dual fitment (air/SE). Single tyres air 27x10-12 and SE 28x12.5-15.

² Optional: air 23x9-10.

³ Bracketed value for dual fitment.

⁴ 1042 mm with tyre size SE 28x12.5-15.

⁵ Bracketed value for dual fitment.

⁶ Lift height and equipment can change the backwards tilt.

⁷ With 150 mm free lift on standard lift mast.

4 Basic dimensions

4.4	Lift	h3 [mm]	3050
4.5	Raised mast height	h4 [mm]	3840
4.7	Overhead guard height (cab)	h6 [mm]	2210
4.8	Seat height (min/max)	h7 [mm]	1105
4.12	Coupling height	h10 [mm]	698
4.19	Overall length	l1 [mm]	3727
4.20	Length including fork back	l2 [mm]	2727
4.21	Overall width	b1/b2 [mm]	1256 ⁸
4.22	Fork arm dimensions	s/e/l [mm]	45 x 100 x 1000
4.23	Fork carriage DIN 15173, class/form A, B		2 A
4.24	Fork carriage width	b3 [mm]	1150 ⁹
4.31	Ground clearance at mast	m1 [mm]	119
4.32	Ground clearance, centre of wheelbase	m2 [mm]	173
4.33	Aisle width for pallet 1000x1200 crosswise	Ast [mm]	4065
4.34	Aisle width for pallet 800x1200 longitudinal	Ast [mm]	4265
4.35	Turning radius	Wa [mm]	2420
4.36	Smallest pivot point distance	b13 [mm]	580

5 Performance data

5.1	Driving speed with/without load	km/h	22/22
5.2	Lifting speed with/without load	m/s	0.47 / 0.48
5.3	Lowering speed with/without load	m/s	0.52 / 0.54
5.5	Pulling force with/without load	N	19,790 / 15,150
5.7	Climbing capability with/without load	% ¹⁰	32 / 33
5.9	Acceleration with/without load	s	5.6/4.8
5.10	Service brake		Hydrostatic

⁸ 1337 mm for SE 28x12.5-15; 1611 mm for SE dual fitment 7.00-12; 1289 mm for air 27x10-12/20 PR; 1337 mm for air 250/75 R12; 1624 mm for air dual fitment 7.00-12.

⁹ For dual fitment 1600 mm.

¹⁰ On short slopes, driving over obstacles (see section: Driving)