

Technical Test Theory

Excavator 180 above 5 tonnes A12C – Lifting Operations



No.	Question
1	Before lowering into or moving a pipe into a trench, what trench-related checks must be made?
2	If a load is lifted using the backhoe unit that is in line with the machine, when slewing the load fully to the left or right, the machine can become unstable. Explain why.
3	With regards to lifting accessories, irrespective of who supplied the accessories, what THREE factors should be ensured before the accessories are used?
4	Explain the possible danger if the excavator is lifting a load on sloping ground, even though the load chart indicates that the machine can lift the load.
5	If using the forks to lift loads, what machine-related information is needed?
6	What makes up the total (or gross) weight of a load that is to be lifted?
7	Who determines the lifting/ object handling capacity of the machine?
8	Accessories must only be attached to manufacturers' approved lifting points. Explain THREE possible consequences if the recommendations are not followed.
9	Explain the purpose of a lift plan.
10	If a hook is fitted to the machine for lifting purposes, what must be checked before use?
11	If the accessory attachment point is not part of the bucket, give TWO reasons why it should be removed.
12	If the load inadvertently or accidentally lands, what course of action should be taken?

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13	If the machine's rated capacity/ object handling capacity chart is not available for reference, what other method can be used to determine the machine's lifting capacity?
14	If travelling with a load, name FIVE factors that must be taken into account by the operator before moving.
15	The Safe Working Load (SWL) or Working Load Limit (WLL) of a multi-leg chain sling only applies in what TWO conditions or configuration?
16	What effect can a swinging load have on an excavator?
17	What is regarded as the danger or hazard zone during a lifting operation?
18	What needs to be inspected on a quick-hitch coupler if attaching lifting accessories for the lifting of slung loads?
19	When an object needs to be lifted on a site, what should be the first consideration of planning?
20	When slewing with a load, where should the operator be looking?
21	Why should long loads be lifted using a swivel type lifting accessory?
22	A load that is within the machine's lifting capacity when in the straight position can cause instability when slewed through 90 degrees to either side of the machine, why?
23	What could happen if a load is fitted with a backhoe in line with the machine, but with the carriage offset to one side?
24	How is the reach of a backhoe for lifting operations normally defined?
25	What needs to be taken into account if the bucket is left on the backhoe when lifting a slung load?

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26	What is the purpose of check valves if they are fitted to the excavator's backhoe boom raising cylinder?
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