

Technical Test Theory

Excavator 360 below 10 tonnes - Lifting A97 (A58)



No.	Question
1	What effect can a swinging load have on an excavator?
2	If a hook is fitted to the machine for lifting purposes, what must be checked before use?
3	With regards to lifting accessories, irrespective of who supplied the accessories, what THREE factors should be ensured before the accessories are used?
4	Using the lifting capacity diagram for A58: a) what is the maximum lifting capacity at 4 m radius over the sides of the track with the load at a height of 1 m b) what effect does fitting a bucket have on the lifting capacity c) what effect does the dozer blade have on the lifting capacity?
5	What is regarded as the danger or hazard zone during a lifting operation?
6	Before lowering into or moving a drag box into a trench, what trench-related checks must be made?
7	What needs to be inspected on a quick-hitch coupler if attaching lifting accessories for the lifting of slung loads?
8	Accessories must only be attached to manufacturers' approved lifting points. Explain THREE possible consequences if the recommendations are not followed.
9	Why should long loads be lifted using a swivelling type lifting accessory?
10	The safe working load (SWL) or working load limit (WLL) of a multi-leg chain sling only applies in what TWO conditions or configuration?
11	If the accessory attachment point is not part of the bucket, give TWO reasons why it should be removed.
12	On both tracked and wheeled types: a) what differs between lifting over the side compared to over the front or the rear of the machine? b) Explain why.

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13	According to legislation, when are check valves and a rated capacity or load moment indicator required?
14	What makes up the total (or gross) weight of a load that is to be lifted?
15	When slewing with a load, where should the operator be looking?
16	Who determines the lifting/object handling capacity of the machine?
17	What is the main purpose of the Rated Capacity Indicator (RCI) or Load Moment Indicator (LMI)?
18	Which parts of the machine is the radius (for lifting) measured from?
19	If attaching accessories to a quick-hitch coupler, give TWO reasons why the coupler should be tilted in the downwards position (ram extended)?
20	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?
21	Manufacturers' lifting or object handling capacity charts apply (in all known cases) when the machine is level. What is the effect if a load is lifted or travelled facing downhill on a downhill slope?
22	Explain the purpose of a lift plan.
23	If travelling with a load, name FIVE factors that must be taken into account by the operator before moving.
24	When an object needs to be lifted on a site, what should be the first consideration of planning?

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25	Why must the controls be isolated before each load can be attached or disconnected by the slinger?
26	If the load inadvertently or accidentally lands, what course of action should be taken?