

# Forward Tipping Dumper

A09

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Forward tipping dumper with: <ul style="list-style-type: none"> <li>– a seatbelt and ROPS</li> <li>– hydraulic operated transmission (i.e. shuttle, hydrostatic or powershift)</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include: <ul style="list-style-type: none"> <li>– rough undulating terrain</li> <li>– slope or slopes</li> <li>– a stockpile of material for loading</li> <li>– a straight run for reversing</li> <li>– trench or edge for unloading purposes</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Machine to load the material</li> <li>• Edge protection</li> <li>• Items to create restrictions for travelling and manoeuvring</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• Suitable and sufficient material for loading and discharging</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be of at least 2 tonnes capacity, meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the dumper</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The straight run for reversing must be at least 30 metres long</li> <li>• The trench or an edge must be at least 1 x metre deep and a minimum of 3 x the machine's width</li> <li>• Edge protection must be of substantial build to restrain a machine from inadvertently entering the trench</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activity 2 may be spread over the period of the test</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>Certain activities (The test) must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the dumper for travel
Travelling & manoeuvring (refer to specifications)	2. In a loaded and unloaded state: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– stop and start on the slope in the up direction</li> <li>– stop and start on the slope in the down direction</li> <li>– pass through a chicane executing full right- and left-hand turns in a forward and reverse direction (unloaded only)</li> <li>– travel over rough terrain</li> <li>– reverse (loaded only) in a straight line for a minimum of 30 metres and pass through a restriction at the end of the run</li> </ul>
Setting up for work	3. Position the dumper for loading
Working tasks (refer to specifications)	4. Receive a load 5. Discharge the load into the edge or excavation
Completing work	6. Clean out the skip fully
Shutting down	7. Park the dumper and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travelling and reversing restriction	<ul style="list-style-type: none"> <li>• 500 mm</li> </ul>
Discharging	<ul style="list-style-type: none"> <li>• Minimum of 3 times (activity 5)</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 15 minutes</li> </ul>

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<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Endorsement A <input type="checkbox"/> Endorsement B <input type="checkbox"/>	Start time of test
	Make and model	Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Dumper set for travel		
	3 Seat belt worn		
	4 Restrictions cleared		
	5 Encountered hazards cleared		
	6 Full control maintained when ascending and descending slopes		
	7 No opposite movement of intended direction when restarting on slopes		
	8 Travel direction on slopes		
Setting up	9 Straight line kept for loaded reversing activity		
	10 Allocated area checked and clear of hazards prior to being loaded		
Working	11 Safe place selected during loading		
	12 Appropriate speed used when approaching discharge point		
	13 Edge protection applied or checked and used prior to discharging load		
	14 Parking brake applied and neutral selected before discharging loads		
	15 Vehicle marginally reversed after discharging to clear body		
Completing	16 Skip fully lowered before leaving discharging point		
	17 Skip cleaned of material		
Shutdown	18 All shut down and securing procedures		
Other	19 Legislation, manufacturers' and health and safety requirements complied with		
	20 Activities (test) completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Dumper mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Engaging transmission drive smoothly from rest		1	
	5	Matching travel speed to the ground type and conditions		2	
	6	Matching gear ratios to ground speed		1	
Working	7	Dumper positioning for loading		2	
	8	Dumper positioning square to the discharge edge prior to discharging		2	
	9	Skip fully empty after discharging		2	
	10	Smooth use of steering and braking controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved

