

# BrakeCheck 4 Quarries

## Quick Reference Guide



### Quarries & Mines Brake Testing

The following criteria are required for all quarry brake tes

All brake testing should be carried out away from the sites working area; this should be done in a dedicated area that has roughly level ground.

Testing of dump trucks should be carried out with a payload; loading shovels should **NOT** have a payload!

Guideline performance efficiency's are derived from the EN ISO 3450:1996, titled "Rubber Tyred Earth Moving Vehicles"

The guideline performance figures are:

Machines Tested Without Payload:

See ISO 3450:1996 Table 2 28 %

Rigid frame & articulated dump trucks with a overall mass of 32 tonnes & tested with payload:

See ISO 3450:1996 Table 4 19%

The quoted figures are bare minimum requirements.

Test speed should not exceed 32Kph.

### Brake Tester Position

The brake tester should be positioned in the foot well of the vehicle, preferably up against a bulkhead with the direction of travel arrow pointing in the intended direction and the tester straight.

### Plant Service Brake Test Procedure

With the vehicle stationary, position and arm the brake tester, accelerate the vehicle at a constant rate in a straight line up to a safe site speed then apply the brakes in an emergency stop manner, hold the vehicle on the brake until the vehicle has come to a complete rest. NOTE: The BrakeCheck 4 Quarries is a roughly level ground tester, do not test on steep inclines.

### Arming For A Service Brake Test

Turn the BrakeCheck on by pressing and holding **MENU** until **Sbr** is displayed on the screen. If you hold on to MENU to long you will just rotate the Current Mode box, press **MENU** once at a time to do this and go back to **Sbr**.

Press **ENTER**, the display will now show C1 this is the input for the ground condition, pressing MENU will increase this with the following codes: C1=Wet Ground C2=Dry Ground C3=Snow/Ice Ground C4=Tarmac Ground, press ENTER to accept either one, the display will now show the level indicator L-| |-, if this is not the case re-position the BrakeCheck until achieved.

Press **ENTER** the display should now read 0.00 ± 5, as described in Plant Service Brake Test Procedure accelerate and brake.

The test number will displayed at the end of the test, record this and the plant ID in your log book, if the display still shows L-| |- you did not press **ENTER!!**

With the test number displayed press **ENTER**, this will show the **Brake Efficiency** reading, this is relative the ISO guideline figures. Pressing **ENTER** again shows further information.

### Arming For A Hand Brake Incline Test

Once you have completed your service brake test you can then test the plant hand brake as a static incline test.

If the BrakeCheck has turned it self off then press and hold **MENU** until **Sbr** appears on the display, press **MENU** again for **Hbl**, if the tester was still powered press **MENU** twice.

Proceed to your incline test area and apply your hand brake and then press **ENTER**, the display will now show C1 this is the input for the ground condition, pressing MENU will increase this with the following codes: C1=Wet Ground C2=Dry Ground C3=Snow/Ice Ground C4=Tarmac Ground, press ENTER to accept either one, the display will show the incline gradient, if you are satisfied that the plant hand brake is OK press **ENTER**, if the hand brake FAILS press **MENU**. Once you have pressed enter or menu the test number will be displayed, record this and the plant ID in your logbook and press **ENTER** to proceed.

### BrakeCheck has a 99 TEST MEMORY on the service and hand incline test

The tests are stored in the memory by the latest test completed

To review the results or download to CabCheckS bring up **Sbr** in the BrakeCheck display, press **MENU** three times you should now have two lights indicating Service Brake and Last Test Result, press **ENTER**, The display will now show L A, this is a print all function, if you now press **PRINT** you will print off all tests from 1 to the last test recorded, if you do not require all tests, press **MENU** and the individual test number will be shown, this will always be last test reviewed L#, press **MENU** to increase the test number, if you hold down the **MENU** button the test numbers will increment rapidly. Once you have decided which test you would like to review or print press **ENTER**. Make sure your printer is on before pressing **PRINT**. You can then press **ENTER** to review all tests results such as the average performance, the left / right pull and stopping distance.

You can do the same for the Hand Brake Incline test; just press **MENU** until the two lights show Hand Brake Test and Last Test Result, then **ENTER** and as before.

### To Clear The Memory From Your BrakeCheck Plus

Bring up **Sbr** in the display, press **MENU** until **Cir** is shown in the display, this will happen after Temperature. Press **ENTER**, wait for 3 straight digits to move across the display and reset to **Sbr**. This has now cleared all memory.

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