



**This is an Addendum to PIN 10 to demonstrate the effect of varying loads carried by the 8 t, 8 wheel, twin steer trucks on different strength LCSs.**

## No of Axle Gp Repetitions on Varying Strength 150 mm LCS

8 WHEEL TWIN STEER TRUCKS - 4.5 + 3.5 = 8 t empty

### 5 MPa 150 mm LCS

Subgrade CBR %	3	4	5	8	10	12	15
Equivalent CBR %	5.5	6.6	7.6	10.2	12	13.5	16
Tag No	53	54	55	58	510	512	515
No of passes - Empty	∞	∞	∞	∞	∞	∞	∞
7.5 cub m load							
7 cub m load				80			210
6.5 cub m load				290		400	550
6 cub m load	240	450	650	1100	1500	1900	2300

### 10 MPa 150 mm LCS

Subgrade CBR %	3	4	5	8	10	12	15
Equivalent CBR %	5.5	6.6	7.6	10.2	12	13.5	16
Tag No	103	104	105	108	1010	1012	1015
No of passes - Empty	∞	∞	∞	∞	∞	∞	∞
7.5 cub m load	40		100		250	330	440
7 cub m load					850	1050	1400
6.5 cub m load	530	800	1100	1940	2530	3100	4050
6 cub m load	1900	2800	3700	6500	8300	10200	13000

### 12 MPa 150 mm LCS

Subgrade CBR %	3	4	5	8	10	12	15
Equivalent CBR %	5.5	6.6	7.6	10.2	12	13.5	16
Tag No	123	124	125	128	1210	1212	1215
No of passes - Empty	∞	∞	∞	∞	∞	∞	∞
7.5 cub m load	290	450	630	1100	1500	1850	2400
7 cub m load	1000	1500	2000	3500	4600	5500	7100
6.5 cub m load	2900	4300	5600	9500	12500	15000	19000
6 cub m load	9500	14000	18000	29500	37500	44500	50500

### 15 MPa 150 mm LCS

Subgrade CBR %	3	4	5	8	10	12	15
Equivalent CBR %	5.5	6.6	7.6	10.2	12	13.5	16
Tag No	153	154	155	158	1510	1512	1515
No of passes - Empty	∞	∞	∞	∞	∞	∞	∞
7.5 cub m load	3100	4600	6000	10300	13000	15500	20000
7 cub m load	9000	13000	17000	27000	35000	41500	51000
6.5 cub m load	23000	33000	42000	66000	84000	98000	123000
6 cub m load	70000	98000	125000	195000	243000	280000	350000

- NOTES:**
- 1 The software normally handles Axle Groups of 10,000+
  - 2 In this example there are 2 Axle Groups per truck.
  - 3 The software normally reads to 3 places, hence result also dependant on the power of the multiplier.
  - 4 In the calculations, a number of the parameters are rounded off, hence the results should be regarded as  $\pm 10\%$ .
  - 5 The results highlighted should only be considered