

LGB 40830 RhB Uah 8131-40

| Dimension or feature | Prototype | 1:22.5 | LGB | LGB Scale | % error +/- | Score |
|------------------------------|-----------|--------|-------|-----------|-------------|--------------|
| Width | 2460 | 109.3 | 114.1 | 1:21.5 | + 4.4% | Good |
| Height | 3630 | 161.3 | 176.8 | 1:20.5 | + 9.6% | Passable |
| Length over buffers | 11040 | 490 | 488.5 | 1:22.5 | - 0.3% | Excellent |
| Axle distance | 7400 | 328.9 | 331.5 | | + 0.8% | Excellent |
| Kingpin distance | 6000 | 266.7 | 268.5 | | + 0.7% | Excellent |
| Axle distance within truck | 1400 | 62.2 | 63 | | + 1.2% | Very Good |
| Wheel dia. | 750 | 33.3 | 30.5 | | - 8.4% | Passable |
| Railhead to Center of buffer | 625 | 27.8 | 33.5 | | + 20.5 | Questionable |

| | | | | | | |
|------------------|------|-----|-------|--|--------|-----------|
| Length of Tank | 9000 | 400 | 399.5 | | - 0.2% | Excellent |
| Diameter of Tank | 2500 | 111 | 110 | | - 0.9% | Excellent |

Comments: Some of the screws used for assembly are visible.

How the measurements are rated:

| | |
|-----------------------|---------------------|
| +/- 1.0% or better : | Excellent |
| +/- 1.1 to 4% : | Very Good |
| +/- 4.1 to 7% : | Good |
| +/- 7.1 to 10% : | Passable |
| +/- 10.1% and above : | Questionable |

Measurements taken with:

- Vernier (0-450mm; 0.02mm accuracy)
- Digital Vernier (0-200mm; 0.01mm accuracy)
- Height Gauge (0-250mm; 0.02mm accuracy)