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| Test Plan for ***Train*** | | | |
| *Test case* | *Test data* | *Expected result* | *Checked* |
| GoodWeight | Engine.Model = "**CP 8002**"  Engine.SerialNumber = **48807**  Engine.Weight = **147700**  Engine.HP = **4400**  RailCar1.SerialNumber = "**18172**"  RailCar1.LightWeight = 38800  RailCar1.Capacity = 130000  RailCar1.LoadLimit = 130200  RailCar1.Type = COALCAR  RailCar1.InService = true  RailCar1.RecordScaleWeight(164500) | TotalCars = 1  GrossWeight = 312200  MaxGrossWeight = **8800000** |  |
| Over Gross Weight | Engine.Model = "**CP 8002**"  Engine.SerialNumber = **48807**  Engine.Weight = **200**  Engine.HP = **200**  RailCar1.SerialNumber = "**18172**"  RailCar1.LightWeight = 75000  RailCar1.Capacity = 130000  RailCar1.LoadLimit = 400000  RailCar1.Type = COALCAR  RailCar1.InService = true  RailCar1.RecordScaleWeight(450000) | Throws ArgumentException with message about overweight load |  |
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