

EQUIPMENT NEEDED FOR PURCHASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	PRODUCT	REF #
28	111A100W1	18,000+	<i>Interior or Non-Coiled, In-Plant Service Only</i>		11229
1	111A100W3	20,000	Needs Coils, Insulated, Storage Only	Vegetable Oil	11022
10-20	111A100W3	23,500	Exterior Coils, Insulated	Asphalt	10989
6	111A100W1	24,000+	Non-Coiled, Non-Insulated, Storage Only		10990
ANY	112J340W	33,500	Non-Coiled, Insulated, Top Unload Only	LPG	10734, 11143
50-100	BOX	50'			10906
150	BOX	50'-60'	70 or 100 Ton Trucks, Plug Doors	Paper	11127
175	BOX	60'	Insulated Box Cars		11106
10-15	FLAT	53'-54'	Needs 53-54' Between Bulkheads, In Plant Only		11135
20-30	GONDOLA	52'+	52' 6" Inside Length, 4' 6" High Sides	Pipe	11237
20	GONDOLA	3,800-4,200	100 Ton Trucks		11112
150+	GONDOLA	4,000	100 Ton Trucks, Flat Bottom or Bath Tub		10841
20	HOPPER	2,350	Rapid Discharge	Cement / Lime	10829
15	HOPPER	3,000+	Customer Will Modify	Grain	11103
50-150	HOPPER	4,000	100 Ton Trucks, 36% or More Slope Sheets	Aggregate	11033
10	LO	4,400-4,800	Trough Hatches, Gravity Gates, Inexpensive, Not For Interchange	Grain	11129
15	LO	4,650	Trough Hatches, Gravity Gates		11049
10-20	LO	4,750	Trough Hatches, Gravity Gates	Corn	11100
12-24	LO	4,750	Trough or Round Hatches, Gravity Gates	Small Aggregate	11042
25	LO	3,000	Trough Hatches, Gravity Gates	Cement	11099
1	LO	5,250	Round Hatches, Pneumatic Gates	Plastic Pellets	11065
20	PD	3,000	14.7 PSI	Cement	10960

U.S. STANDARD RAILROAD GAUGE Why Is It 4' - 8 1/2" ? - Part III

Several issues back we began to discuss this subject. In this issue we will begin an abridged response by A.W. Worth, System Engineer - Standards of Canadian National Railways.

Professor O'Hare, who perhaps significantly is a professor of Germanic languages and not of ancient Latin or Greek, has the right general idea, but he is at least 1000 years too late in ascribing standard gauge to the wheel spacing of "Roman war chariots". The Encyclopedia of Railways states that the standard gauge of 4'-8 1/2" goes back long before the time of the Romans. For example, at the time of Darius, King of the Persians (Daniel 6:31) the Persian empire had an excellent system of military roads, over which messengers could drive chariots at top speed. The countryside in Persia is rugged in places, with barren mountain ranges into the rocky flanks of which the military roads were cut. To keep the chariots from going off the side of the mountain while the horses were being lashed along at top speed, grooves were cut into the surface of the rock to hold the chariot wheels. The grooves are at the same centres as rails of standard gauge track are today.

Obviously the system did not start with Darius, but it is only in what at that time was the Persian Empire that the old grooved roads can still be found. It probably goes back at least to Ur of the Chaldees, but in the southern part of the valley of the Tigris and the Euphrates the ground is softer and would not hold the marks.

None of this is to suggest that messrs. Trevithick, Stephenson, etc., used design manuals from the Sumerian and Akkadian empires in deciding upon the 4'-8 1/2" gauge. It only illustrates the principle of parallel evolution, i.e., that 'everything that rises must converge'.

The Romans did not use chariots for purposes of warfare. Chariots were pretty well technologically obsolete by the time of the Romans, because they had developed horses that were big enough to ride. If you go back 1000 years before that, though, to the late bronze age, the time of Troy, the horses were too small to take the weight of a man in armour, and chariots were the ultimate weapon of warfare. Chariots figure extensively in the Iliad, and in the Bible around the time of Solomon (2 Chronicles 18). The big horses seem to have come into Europe some time later, out of central Asia, with the Scythians. For war, after 600 BC or so, the ancient Greeks and the Romans used cavalry in the modern sense of the term. As anyone who has seen 'Ben Hur' knows, the Romans used chariots for 'fun events' in the Coliseum, but such events were more or less a cross between the Indianapolis 500 and a demolition derby and had no relation to war. The only tribes that still used them in Roman times were backward types like the Britons (see the statue of Queen Boadicea in London), perhaps because the British horses were still rather small. However, the use by the Britons of antique devices such as chariots was considered remarkable enough by the Romans that they made special mention of it.

Be looking for the conclusion of this discussion, Part IV..... Coming soon!

Items Highlighted In Italics Designate New Listings

THE INSIDE TRACK



RAILWAY EQUIPMENT LISTING
Published By: **TRANSMATRIX, INC.**
570 East Higgins Road, Suite 200
Elk Grove Village, IL 60007-1442



PHONE: (847) 228-6022

FAX: (847) 228-6029

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EQUIPMENT AVAILABLE FOR LEASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	LAST CONTENTS	REF #
6	<i>105J300W6</i>	<i>13,900</i>	<i>Stainless Steel, Non-Coiled, Insulated, Top Unloading Only</i>	<i>Chlorosulfonic Acid</i>	<i>11231</i>
1	111A100W1	20,000	Interior Coils, Non-Insulated, 70 Ton Trucks, Top & Bottom Unloading	Tallow	11191
7	105A100W3	20,000	Non-Coiled, Insulated, Top Unloading, Gauging Devices		10695
6	<i>105A300W</i>	<i>20,500</i>	<i>Non-Coiled, Non-Insulated, Top Unloading Only, 2 Year Minimum</i>	<i>Anhydrous Ammonia</i>	<i>10310</i>
2	111A100W1	26,000	Non-Coiled, Non-Insulated, Bottom Unloading, Hazmat Equipped	Fuel Oil	11227
15-20	<i>112J340W</i>	<i>33,500</i>	<i>Non-Coiled, Insulated, Top Unloading Only, Summer Months Only</i>	<i>Propane</i>	<i>10236</i>
11	BOX	50'	100 Ton Trucks, 6,100 Cubic Foot, Plate F, Double Plug Doors		11230
14	BOX	50'	100 Ton Trucks, Plug Doors, Plate C, Nailable Steel Floors		11168
50	BOX	50'	70 Ton Trucks, Single Plug Doors		10942
56	BOX	50'	70 Ton Trucks, 1 Year Full Service Lease		10752
40	FLAT	51' 6"	Bulkheads, 70 Ton Trucks		10927
28	FLAT	60'	100 Ton Trucks, Bulkheads, 5 Year Minimum		11148
15	GONDOLA	40 Yd	70 Ton Trucks, Side Dump To Either Side, Air Operated	Aggregate	10402
103	GONDOLA	4,000	100 Ton Trucks, Rotary Dump	Western Coal	11082
1	LO	5,250	Trough Hatches, Gravity or Pneumatic Gates		11113
7	PD	2,785	15 PSI, Short Term	Gypsum	11211
1	PD	3,000	15 PSI, 5 Compartments	Cement	11117
2	PD	3,800	15 P.S.I., 1-3 Year Term	Cement	10935

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EQUIPMENT NEEDED FOR LEASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	PRODUCT	REF #
20-30	111A100W3	13,000	Exterior Coils, Insulated, Lined, Top Unloading Only	Molten Sulfur	11201
50	111A100W2	13,500	Non-Coiled, Non-Insulated, Top Unloading, Lined or Lineable	Sulfuric Acid	11125
4-5	111A100W3	16,000	Exterior Coils, Insulated, Top & Bottom Unloading	Sodium Silicate	10995
2-3	111A100W3	16,000+	Exterior Coils, Insulated, Lined, Top & Bottom Unloading	Calcium Chloride	11252
ANY	111A100W3	16,500	Exterior Coils, Insulated, Lined, Short or Long Term	Caustic Soda	11039 11256
100-150	105A500W	17,300	5-10 Year Lease	Chlorine	11186
8	105J500W	17,500	Must be 1990 Built or Newer, Long Term Lease	Chloro Silane	11081
ANY	105S200W 112S200W	20,000	Will Line, Long Term Lease	Chlorinated Solvents	10903
2	111A100W1	20,000	Non-Coiled, Non-Insulated	Amines	11190
1	111A100W1	20,000	Exterior or Interior Coils, Top & Bottom Unloading	Lignin Liquor	11167
4-6	111A100W1	20,000	Non-Coiled, Non-Insulated, 6-12 Month Lease	Magnesium Chloride	10900
20-30	111A100W1	20,000	Non-Coiled, Non-Insulated, Top & Bottom Unloading, Lined	Calcium Chloride	11169
1-5	111A100W6	20,000	Exterior Coils, Insulated, Stainless Steel	Malic Anhydride	11147
20	111A100W1	20,000-24,000	Non-Coiled, Non-Insulated, Top & Bottom Unloading	Corn Steep / Molasses	11061
1-2	111A100W1	20,000-25,000	2 or 3 Compartments, Exterior or Interior Coils, Top & Bottom Unloading	Hydraulic Oil	11126
10	111A100W3	23,500	Exterior Coils, Insulated, 1 Year Term	Vegetable Oil	11146
2-3	111A100W3	23,500	Exterior Coils, Hazmat Equipped, Long Term	Dicyclopentadiene	10954
6-8	111A100W3	23,500-27,000	Exterior Coils, Insulated, 6-12 Month Lease	Petroleum Wax	11194
4-6	111A100W1	25,000	Non-Coiled, Non-Insulated	Used Fuel Oil	11223
5-6	111A100W1	26,000	Non-Coiled, Non-Insulated, Top & Bottom Unloading	Crude Fuel Oil	11228
20-30	111A100W1	30,000	Non-Coiled, Non-Insulated, Open Term	Diesel	11253
25-30	111A100W1	30,000	5 Year Term	Ethyl Alcohol	11089
25-50	111A100W1	30,000	5 Year Term	Ethanol	11009
60	111A100W1	30,000	1 Year Minimum Term	Crude Light Oil	10962
15-40	112J340W	33,500	1-3 Year Term	LPG	11176
10-20	112J340W	33,500	September, 2005 Through March, 2006,	LPG	11094
60-80	BOX	50' - 60'	100 Ton Trucks		11226
ANY	BOX	60'	100 Ton Trucks	Rock Pellets	11016
2-3	BOX	60'	Plate C, Load Dividers, Long Term Lease	Bagged Clay	11015
100	FLAT	89'	100 Ton Trucks, Short or Long Term		11149
15-20	GONDOLA	65'	Flat Bottom		11170
100	GONDOLA	6,100+	Flat Bottom, 6,100 Cubic Foot or Larger	Construction Debris	11250
190	HOPPER	2,000	Rapid Discharge Gates, 1-5 Year Lease	Limestone	11093
40-80	HOPPER	2,000+	45 Degree Slope, 4 Gates, Long Term Lease	Aggregate & Sand	11012

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EQUIPMENT NEEDED FOR LEASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	PRODUCT	REF #
100	HOPPER	3,850	Gravity Gates	Aggregate	11257
30-40	HOPPER	6,000+	Needs End Gates	Woodchips	11120
40-60	LO	2,800-3,500	100 Ton Trucks, Round or Trough Hatches, 2 Compartments	Sand	11059
10-20	LO	3,000+	Round Hatches, Gravity Gates	Cement	11121
4-5	LO	4,100+	Trough Hatches, Gravity Gates, Short or Long Term	Ruminant Meat & Bone Meal	11152
4	LO	4,650	Trough Hatches, Gravity Gates, Lined	Urea	11200
40-50	LO	4,650	Round Hatches, Gravity Gates	Calcium carbide	10965
ANY	LO	4,750	Trough Hatches, Gravity Gates, Long Term	Ammonium Sulfate	11180
50-100	LO	4,750	Trough Hatches, Gravity Gates, 5 Year Lease	Pebble Lime	11144
5	LO	5,250	Trough Hatches, Gravity Gates, 1-2 Year Lease	Fish Meal	11090
1	LO	5,250+	Round Hatches, Pneumatic Gates, Lined	Plastic Pellets	11210
75	LO	5,750+	Round Hatches, Pneumatic Gates	Plastic Pellets	10919
20-60	PD	3,000	15 PSI, 1 Year Term	Cement	10864
15	PD	3,500+	15 PSI, 3 Year Term	Cement	11047
3	PD	4,000+	15 PSI, 1-5 Year Lease	Silicon Dioxide	11184
10	PD	5,200	15 PSI, Food Grade Lining	Wheat Starch	11060

EQUIPMENT AVAILABLE FOR SALE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	LAST CONTENTS	REF #
50	111A100W2	10,000	Top Unloading, Non-Coiled, Non-Insulated	Latex Paint	10671
15	111A100W1	11,650	Insulated, Sparger System	Titanium Dioxide	11162
29	111A100W2	13,500	Non-Coiled, Non-Insulated, Lined, Top Unloading Only	Sulfuric Acid	11134
11	111A100W1	14,000	Insulated	Clay Slurry	11161
3	111A100W1	20,000	Interior Coils, In-Plant Storage	Various	10808
1	112J340W	33,500	Non-Coiled, Insulated, Top Unloading Only, Storage or In-Plant Service Only	Anhydrous Ammonia	11213
30	BOX	50'	70 Ton Trucks, Double Sliding Doors		11214
50	BOX	50'	286,000 Capacity		10908
3	BOX	60'	100 Ton Trucks, Sliding Doors		11083
55	FLAT	50'	With Log Bunkers	Pulpwood	11040
75	GONDOLA	4,550	Flat Bottom, 100 Ton Trucks, 8' 11" Sides		11239
2	HOPPER	7,000	Gravity Gates	Wood Chips	11114

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