

EQUIPMENT NEEDED FOR PURCHASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	PRODUCT	REF #
6	111A100W3	16,000	Non-Coiled, Insulated, Lined, Top & Bottom Unloading	Caustic Soda	11993
2	111A100W2	16,000-20,000	Non-Coiled, Non-Insulated, Top Unloading Only	Phosphoric Acid	11342
2-3	111A100W1	20,000+	Must Have Coils, Top & Bottom Unloading	Liquid Sulfur	11998
2-3	111A100W1	20,000-27,000	Storage Only, Must Be Coiled	Wax	11878
20	112A400W	20,000-34,000	Non-Coiled, Insulated, Storage Only, Must Be 400 Lb. Cars	Anhydrous Ammonia	12051
ANY	112J340W	33,500	Insulated, Top Unload Only	LPG	10734, 11143 11905
56	FLAT	60'	60' Between Couplers, 100 Ton Trucks, 50 Year Cars		
60+	FLAT	89'	100 Ton Trucks		11894
60	GONDOLA	2,200-2,600	100 Ton Trucks, 1980 or Newer		11983
100	GONDOLA	2,200-4,000	Flat Bottom, 50 Year Cars	Scrap	12013
10-80	GONDOLA	7,000+	Flat Bottom, With or Without End Gates	Woodchips	11882
30-40	LO	2,850-3,200	Round Hatches, Gravity Gates, 2 Compartment	Sand	11938
200+	LO	3,000	Round Hatches, Gravity Gates, 286,000 Capacity	Sand	11975
10	LO	3,000	Round Hatches, Gravity Gates	Sodium Sulfate	11939
15	LO	4,750	3 Compartment, Gravity Gates or Airslides		12042
30	LO	5,150	Trough Hatches, 286,000 Capacity	Meat / Bone Meal	11963
20	LO	5,250	Gravity Gates	Calcium Chloride	11942
10-12	PD	2,600-3,000	Round Hatches, 15 PSI, Must be Interchangeable		11915

THE DEVELOPMENT OF DIESEL LOCOMOTIVES

Any discussion of the diesel locomotive must include Dr. Rudolf Diesel. Born in Paris in 1858, Diesel was the middle child of German immigrants, Theodor and Elise Diesel. At the age of twelve his parents sent him to Germany so that he may learn German and enroll in a trade school where his uncle taught mathematics. Diesel finished at the top of his class. In 1875 Diesel accepted a merit scholarship to the Royal Bavarian Polytechnic of Munich, now known as the University of Technology, Munich. He graduated in 1880 with the highest academic honors.

After graduating, he worked for a time for one of his professors, Carl Von Lind, researching refrigeration. After 1890 Rudolf Diesel sought to research methods of fuel efficiency in a steam engine. He worked on a model using ammonia vapor, with disastrous results. The engine exploded resulting in months of hospitalization and ongoing vision and health issues. Diesel turned his efforts to produce an engine based on the Carnot Cycle. The Carnot Cycle is a theoretical model of complete efficiency. It proved to be too cumbersome and Diesel eventually developed an engine using high pressure compression to create combustion.

In a patent for which Diesel applied in 1892, air is compressed to sixty four atmospheres, or more, creating temperatures of 700° centigrade and higher, prior to the gradual introduction of finely divided fuel. The fuel ignites upon introduction and as the amount of fuel is controlled, expansion allows the gas to cool to a much greater degree prior to its expulsion from the engine. This reduces the amount of heat loss, greatly increasing the efficiency of the engine.

To be continued...

http://en.wikipedia.org/wiki/Rudolf_Diesel
<http://www.google.com/patents?vid=542846>

Items Highlighted In Italics Designate New Listings



RAILWAY EQUIPMENT LISTING Published By: TRANSMATRIX, INC.

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EQUIPMENT AVAILABLE FOR LEASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	LAST CONTENTS	REF #
6	111A100W2	13,300	Non-Coiled, Non-Insulated, Top Unloading Only, 5 Year Minimum Lease	Sulfuric Acid	11627
7	111A100W3	17,500	Exterior Coils, Insulated, New Phenolic Epoxy Linings, Top & Bottom Unloading		11881
7	111A100W1	20,000	Non-Coiled, Non-Insulated, 2 Compartments	Lube Oil	11955
5	111A100W6	20,500	Exterior Coils, Insulated, Stainless Steel, Top & Bottom Unloading	Acetic Acid / Food Grade	12017
20+	111A10W6	20,800	Non-Coiled, Insulated, Top Unloading Only, Stainless Steel	Food Grade	11836
6	111A100W3	21,000	Exterior Coils, Insulated, Top & Bottom Unloading	Various	12040
8-10	111A100W3	23,500	Exterior Coils, Insulated, Plasite 3070 Lined, Top & Bottom Unloading	Cyclohexanol	11978
100	111A100W3	29,000	Exterior Coils, Insulated	Biodiesel	12008
3	111A100W1	30,000	Non-Coiled, Non-Insulated, 2-3 Year Term	Fuel Oil	11956
14	FLAT	66'	Bulkheads, Cushioned Underframe, 100 Ton Trucks		11628
30	GONDOLA	65'	Flat Bottom, 5' Interior Height		12049
42	GONDOLA	2,000	100 Ton Trucks, Single Cradle, Covers	Steel Coils	12030
17	GONDOLA	2,244	100 Ton Trucks, 4'6" Sides	Aggregate	11755
24	GONDOLA	2,800	Flat Bottom, 6' Interior Height	Aggregate	12047
19	GONDOLA	4,240	Single Tub, Rotary Unload		11987
2	HOPPER	3,600	4 Compartment, Gravity Gates	Coal	12048
38	HOPPER	3,850	50 Year Cars, Rapid Discharge	Coal	11550
10	LO	2,931	Round Hatches, Gravity Gates, 100 Ton Trucks	Sand	11549
130+	LO	4,750	Trough Hatches, Gravity Gates	Grain	11959 / 11986
100+	LO	5,701	Round Hatches, Pneumatic Gates	Plastic Pellets	11925
10-20	PD	2,785	Round Hatches, 14.7 PSI, 5 Year Minimum	Cement	12000
30	PD	3,000	North American Built, 15 PSI	Cement	11920
50	PD	5,150	Round Hatches, 14.7 PSI		11988

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EQUIPMENT NEEDED FOR LEASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	PRODUCT	REF #
4	111A100W2	13,500	Exterior Coils, Insulated, Top Unload Only	Oleum	11923
2	111A100W2	16,000-20,000	Non-Coiled, Non-Insulated, Top Unloading Only, Lined	Phosphoric Acid	11341
8	111A100W3	17,000	Exterior Coils, Insulated, Lined	Sodium Hydroxide	11784
4-5	111A100W3	17,500	Exterior Coils, Insulated, Top & Bottom Unloading, Plasite 4100 or Equivalent Lining	Sodium Bisulfite	11922
10-20	111A60W7	20,000	Non-Coiled, Non-Insulated, Top Unloading Only	Nitric Acid	11999
2-3	111A100W3	20,000	Exterior Coils, Insulated, Top & Bottom Unload	Lignin Liquor	12012
2-4	111A100W3	20,000	Exterior Coils, Insulated, Top & Bottom Unloading, Plasite 4100 or Equivalent Lining	Sodium Bisulfite	11854
100+	111A100W3	20,000	Exterior Coils, Insulated, 3-7 Year Term	Molasses	11776
6+	111A100W3 111A60ALW3	20,000	Exterior Coils, Insulated, Lined or Aluminum Cars, 3-5 Years	Ammonium Thiosulfate	11906
10+	111A100W5	20,000	Non-Coiled, Non-Insulated, Rubber Lined, Top & Bottom Unloading	Hydrofluorosilicic Acid	11980
10	111A100W5	20,000	Non-Coiled, Non-Insulated, Rubber Lined, Top Unloading Only	Hydrochloric Acid	11932
5-10	111A100W3	20,000-24,000	Exterior Coils, Insulated, Top & Bottom Unloading, Plasite 3070 Lined	Ethylene Glycol	11928
ANY	111A100W1/3	20,000-26,000	Coiled or Non-Coiled, 3-4 Compartment Cars, Top & Bottom Unloading	Lube Oil	11940
10	111A100W1	20,000-25,000	Non-Coiled, Non-Insulated, Must be 3 Compartment Cars	Motor Oil	11828
1	111A100W1	23,500-25,500	Non-Coiled, Non-Insulated, Top & Bottom Unloading, 1 Year Term, Storage Only	Methanol	11990
60-75	111A100W3	23,500	Exterior Coils, Insulated, Top & Bottom Unload	Carbon Black	12052
2-3	111A100W3	23,500	Exterior Coils, Insulated, Top & Bottom Unloading	Fatty Acids	12025
8	111A100W1	25,000	Non-Coiled, Non-Insulated, Single Trip Term	Bio-Diesel	11827
1	111A100W1	25,500	Exterior Coils, Cars Must Be Lined, Top & Bottom Unloading, Short Term	C-12 Lauryl Alcohol	11870
1-2	112J340W	33,500	Insulated, 3-5 Year Term	Anhydrous Ammonia	11631
30	112J340W	33,500	Insulated, Top Unloading Only, 3-5 Year Term	Anhydrous Ammonia	11572
40-45	GONDOLA	4,000+	Rotary Dump, Aluminum, 286,000 Capacity	Coal	12024
5-10	HOPPER	2,300+	100 Ton Trucks, Gravity Gates	Glass Cullet	12055
50	HOPPER	3,800	Rapid Discharge, 3 Year Term	Limestone / Coal	12053
50	LO	2,900	Round Hatches, Sparger System	Sodium Chlorate	11941
50	LO	3,000	Round Hatches, Gravity Gates, 286,000 Capacity, 2 Compartments	Sand	11657
20	LO	4,600+	Trough Hatches, Gravity Gates	Soybeans	12031
4-5	LO	4,750		Urea	12027
1-2	LO	6,000-7,000	Round Hatches, Pneumatic Gates, 3-5 Year Term	Plastic Pellets	11816

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EQUIPMENT NEEDED FOR LEASE

# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	PRODUCT	REF #
20	PD	5,100+	Round Hatches, 15 P.S.I.	None Food Grade	11662
27	PD	5,500-6,000	Round Hatches, 15 PSI, 286,000 Capacity	Limestone	11979

EQUIPMENT AVAILABLE FOR SALE					
# OF CARS	DOT / CLASS	CAPACITY	COMMENTS	LAST CONTENTS	REF #
80	111A60W2	13,600	Non-Coiled, Non-Insulated, No Lining, Top Unloading Only	Virgin Sulfuric Acid	11961
200	115A60W6	20,800	Non-Coiled, Insulated, Bottom Load Only, Stainless Steel Inner Tank	Beer	11835
1	111A100W3	23,500	Exterior Coils, Insulated, Top & Bottom Unloading, Storage Only	Lube Oil	12001
30+	111A100W3	23,500	Exterior Coils, Insulated, Lined, Stainless Steel Valves	Various Chemicals	11885
12	111A100W1	28,000	Non-Coiled, Non-Insulated		12056
21	111A100W1	30,000	Non-Coiled, Non-Insulated, Top & Bottom Unloading		12003
20-30	105J300W	34,000	Non-Coiled, Insulated, Top Unloading	LPG	12020
400+	BOX	50'	70 Ton Trucks, Plate C, Sliding Doors		12050
5	FLAT	52' 8"	70 Ton Trucks, Bulkheads, Steel/Wood Floors		11764
12	FLAT	60'	52' 8" Between Bulkheads, 100 Ton Trucks		11763
1	FLAT	66'	21' Depressed Center, 150 Ton Trucks		11822
7	FLAT	70'	100 Ton Trucks, Bulkheads		12019
165	FLAT	89'	70 Ton Trucks, Steel Decks		11971
42	FLAT	92'	Straight Steel Decks, 100 Ton Trucks, 286,000 Capacity		11802
11	GONDOLA	65'	Flat Bottom, 5' Inside Height, 100 Ton Trucks		11883
20	GONDOLA	2,245	Flat Bottom, 100 Ton Trucks, 4'6" Inside Height, Midwest Location	Aggregate	12010
18	GONDOLA	2,494	Flat Bottom, 100 Ton Trucks		11935
30	GONDOLA	2,950	Flat Bottom, 70 Ton Trucks		12015
150+	GONDOLA	4,000	Flat Bottom, 100 Ton Trucks		11991
100	GONDOLA	4,170-4,240	100 Ton Trucks, Single Tub, Rotary Dump		11745
50+	GONDOLA	4,300	Single Tub, Rotary Dump, ACF Built	Scrap Metal	11952
16	HOPPER	2,000	2 Compartments, 100 Ton Trucks		11972
11	HOPPER	2,604	Ballast Cars, Storage or In-Plant Service Only	Aggregate	12004
50	HOPPER	3,290	3 Pocket, 6 Gravity Gates	Aggregate	12039
13	HOPPER	3,600	100 Ton Trucks, Rapid Discharge	Coal	12057
13	LO	4,750	Trough Hatches, Gravity Gates	Ammonium Nitrate	12043
200	LO	4,750	Trough Hatches, Gravity Gates	Grain	12044
47	LO	5,250	Round Hatches, Pneumatic Gates	Plastic Pellets	11902
9-13	PD	2,785	3 Compartments, 15 PSI	Cement	11918
3	PD	3,300	Round Hatches, 14.7 P.S.I.	Cement	11626

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