Brandt Power Unit Specifications – 2009

1. Cab and Chassis:
- Peterbilt 367
- Conventional class 8 truck
- Air ride cab
- Full instrumentation package including:

a. Tachometer
b. Odometer
c. Engine coolant temperature
d. Engine oil temperature
e. Truck reservoir pressure
f. Truck brake application pressure
g. Left hand and right hand drive axles suspension pressure
h. Tandem axle temperature
i. Engine exhaust temperature
j. Engine oil pressure
k. Fuel level
l. Automatic transmission temperature
m. Battery voltage

- Combination fresh air heater / air conditioner

a. 54,500 BTU/HR heater/air conditioner
b. Bi-level heater/defroster controls
c. Radiator mounted condenser

- Ultra Ride High Back fabric air driver / passenger seats
- AM / FM / CD stereo
- Dual air horns

2) Engine:
- Caterpillar C-15 ACERT
- 600 Horsepower @ 2100 rpm
- 2,050 Lb-Ft torque @ 1900 rpm
- Air to air after cooler
- CAT engine brake
- Delco Remy 160 amp alternator
- Delco Remy 12 volt starter
- 4 Delphi 12 volt maintenance free batteries
- 1 battery disconnect switchesmounted in cab
- Bendix 16.1 cfm air compressor

3) Transmission:
- Twin Disc auto-shift transmission complete with torque converter
- 2,050 Lb-Ft torque
- Rated to pull 3,500,000 lbs

- 6-speeds forward complete with overdrive (~ 75 mph)
- 2-speeds reverse (~ 29 mph)
- 380,000 BTU / hour extreme duty transmission cooler

4) Frame and Suspension:
- 3/8" x 11-5/8" steel frame rails and cross members
- 3/8" x 10-3/4" steel frame rail liner
- 4,478,000 Lb-In Rail Bending Moment
- Neway AD 378 69,000 pound rear suspension

5) Rear Axles and Equipment:
- Dana Spicer TDT 583P 58,000 lb.
- Tridem Drive Axles
- 4:88 / 6:64 2 speed rear axle ratio
- Trach Tech no-spin differential lock
- Haldex / Dana automatic slack adjusters

6) Front Axle and Equipment:
- Dana Spicer 20,000 lb
- 23,000 lb front leaf springs
- Power steering with assist
- Dana Spicer ES cam brakes with Haldex / Dana automatic slack adjusters
- Fully collapsible suspension for optimum clearance in rail application

7) Tires:
- 2 @ Front – 445 / 65R22.5 20 ply Bridgestone M844F
- Run flats installed on the rims of the front tires
- 6 @ Rear – 425 / 65R22.5 20 ply Michelin XTE-2

8) Fuel Capacity:
- 160 gallons

9) Lighting:
- Daytime running lights
- Halogen headlights complete with high beam
- Signal lights
- Clearance lights
- 6" round halogen spotlight
- 2 roof mounted amber strobe lights

10) Hydraulic System:
- 4,000 psi capable
- Torque converter driven primary pump is 80cc pressure compensated load sense
- Torque converter driven secondary pump is 45cc remote pressure compensated
- 75 gallon hydraulic oil reservoir
- 55,000 BTU / hr auxiliary hydraulic cooler

11) Pneumatic System:
- VANAIR 185 cfm auxiliary air compressor
- 100% duty cycle
- Hydraulically driven
- 60 gallon main air reservoir
- Enhanced Dual Cycle Air Drying (DCAD) system
- 4 CR Turbo 2000 Brake Master air dryers

12) High Rail Equipment:
- Road mode or rail mode conversion is 3 to 5minutes at a 30' crossing
- Electric over hydraulic, and electric over pneumatic controls
- Gauge is 4' 8 ½" standard
- Rail wheels are CB-28 with AAR profile
- Rail axle is AAR – Class E
- Roller bearings are AAR 6" x 11" AP
- Front High Rail Fail Safe Device

13) Couplers:
Sharon 10-A contour with vertical pin
Front and rear locations
Hydraulic shelf coupler controlled in cab by the operator
Air controlled release from in the cab or outside on the ground

14) Train Brake:
WABCO 26-C automatic brake valve
Independent rail brake
Cobra brake shoes
60 gallon air reservoir

15) Tractive Effort:
Up to 50,000 lbs with shelf coupler
Variable setting controlled by the operator
Air knife rail drying system, complete with rail sweeps
Rail sanding system controlled by the operator

16) Safety Equipment:
3-note locomotive horn
Back-up alarm
Monitor in cab with cameras showing rearward movements and rear rail wheel alignment

17) Weights and Dimensions:
~ 63,000 lb vehicle weight
~ 465″ overall length
~ 102″ overall width
~ 125″ ove rall height without attachments

18) Crane:
Rail, OTM, and Tie loader that is certified to ASME B30.22-2000 standards
Lift capacity of 3,800 lbs @ 28′
Pilot operated boom controls
Boom cylinders are equipped with velocity fuses
A-frame outriggers
Adjustable seat and joystick controls
520 degree boom rotation
¼ cord grapple with continuous rotation and quick disconnect hydraulics