

## AURIZON LOCOMOTIVE DATASHEET

### 422/22/DC CLASS



QR National's fleet of eleven of this type have come from the twenty 422 class originally built for the NSW Government Railways in 1969. After a career mainly focussed on the Main South and Illawarra divisions, they were withdrawn in the late nineties after replacement by new deliveries. 42202 and 42206 were sold to Northern Rivers Railroad in 2000, in turn becoming part of QR's Interail operation after its acquisition of NRR in 2002. Another sixteen were sold to Australia Southern Railroad, also in 2000, fourteen of these being gradually reconditioned and returned to service as '22' class. The initial four were used for construction of the Alice Springs to Darwin line. The final two, which had been used for Countrylink passenger services, were sold to CFCLA in 2001.

Following QR's acquisition of the WA operations of ARG in 2006, QR was allocated eleven of the sixteen, including unmodified stored units 42209 and 42211. The latter two were written-off in 2009, while 2201-2204 and 2208 were used as part of the ARG NSW Manildra contract fleet, this operation running from 2003 to 2008. After this contract finished they returned to WA, with the Intermodal Division taking over 2202 and 2204 for shunting use. By this time they had also taken on the ex-NRR 422 pair, which are used similarly. Use in WA under our ownership has been sporadic, but recently several have returned to service, with one (2206) transferred to NSW to assist the Glencore Grain contract. Genesee & Wyoming Australia (GWA) operates the other five of this type still in service.

Builder : Clyde Engineering, Granville NSW, 1969

Number Built : 20

Running Numbers as Built : 42201-42220

Number Currently Owned : 11

Current Running Numbers : 42202, 42206, 2201-2206, 2208, 2213, 2215

Gauge : 1435 mm

Weight : 110 tonnes

Maximum Axleload : 18.34 tonnes

Bogie Weight : 25.5 tonnes

Maximum Speed : 115 km/h (geared 124 km/h)

Wheel arrangement : Co-Co

Model : J26C

Length over couplers : 18440 mm

Length over headstocks : 17170 mm

Pivot centres : 10363 mm

Wheel centres : 1905 mm

Wheel diameter : 1016 mm (new)

Height : 4257 mm

Width : 2972 mm

Engine : EMD 16-645E, Rootes Blowers

Engine Speed : 900/315 rpm (max/min)

Bore X Stroke : 230.2 X 254 (mm)

Traction Generator : D32

Companion Alternator : D14

Aux. Alternator : 10kW (18 kW 2201-2204)

TM Type, number : EMD D77B (6)

Gear Ratio : 60:17

Brake Equipment : Westinghouse 26L

Air Compressor : Westinghouse 3CDC

No. of driving stations : 2 (either end)

Dynamic Brakes : 600a grids (Extended Range)

Vigilance System :

Fischer (42202,42206,2201-2204)

RTSG PLC (2205,2206,2208,2213,2215)

Event Recorder :

Fischer (42202,42206,2202,2204)

Hasler (2201,2203,2208)

Quantum 1048E (2205,2206,2213,2215)

Wheelslip System : Clyde Cable Relay

Toilet : Yes

Air Conditioner : Custom Air

Gross Power : 1640 kW

Tractive Power : 1492 kW

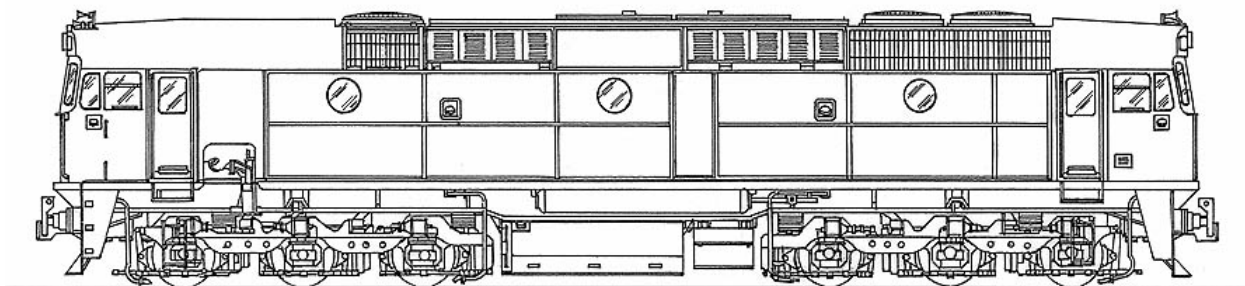
Continuous Tractive Effort : 271 kN @ 12 km/h

Fuel capacity : 5450 litres

Sand capacity : 0.34 cubic metres

Lube Oil capacity : 920 litres

Cooling Water capacity : 795 litres



Sources : ARG VDS, NSWRA Locomotives 12/1984, K.McDonald Diagram