Diesel Hydraulic Locomotive
Series 2068

Four-axle diesel hydraulic locomotive for shunting and light line service, environmentally friendly through low noise emission, optimized exhaust gas suppression and prevention of fluid emission.

Running Gear and Transmission:
The bogies with adjustable rubber block springs, flexi-coil springs and the thereby coordinated shock absorbers result in an optimal running. A wheel flange lubricating device reduces the wheel wear.
The diesel motor JW608DS drives the hydrodynamic VOITH-turbo transmission L4r4zsU2, the latter by a cardan-shaft transmission the axle gears. Cooler, ventilator, screw type compressor and the dynamo are driven hydrostatically.

Brake:
The direct and indirect compressed air brakes in plate construction function through 12” brake cylinders on 16 double brake blocks. Four brake cylinders are equipped with spring accumulators.

Driver’s cabin:
The spacious driver’s cabin contains four driver’s stations, a control and monitoring board, a refrigerator, a hot plate as well as the facilities for rail and shunting radio equipment. The heating and air conditioning plant guarantee pleasant temperatures in all weather conditions.

Control:
The central control device SIBAS 16 takes over the general control, the speed control, the monitoring and diagnosis. Operating data and faults are indicated on the display unit and stored. The protecting device K-Micro includes anti-slip, anti-slide and antirolling devices with automatic sanding distributor as well as brake control of the hydraulic brakes.

Technical Details
- Wheel arrangement: B’ B’
- Track gauge: 1435 mm
- Boundary: UIC 505-1 VI
- Length over buffers: 13770 mm
- Length of the frame: 12470 mm
- Bogie center distance: 6300
- Bogie pitch: 2400 mm
- Wheelbase: 8700 mm
- Wheel diameter (new): 950 mm
  (used): 870 mm
- Diesel engine: JW 608DS
- Nominal rating: 820 kW
- Speed at full load: 1500 min⁻¹
- Number of cylinders: 8
- Fuel consumption at full load: 216 g/kWh
- Turbo-hydraulic gearbox: Voith L4r4zsU2
- Axle gear: Voith V20/22
- Tractive effort on starting: 176 kN
- Total weight: 76 t incl. additional ballast
- Unladen weight: 65.7 t
- Supply:
  - Fuel: 1500 l
  - Sand: 240 l
- Maximum speed: 100 km/h
- Haul speed: 120 km/h
- Smallest track radius: 80 m
- Multiple traction via RS485
- Installation of a radio remote control is possible

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