

**VHD®****Valdunes Heavy Duty****HEAVY HAUL**

## INCREASED PAYLOAD

Improved wheelset design can help you **increase both the axle load up to 50 tonnes and wagon payload** by reducing the weight of the wheelset

## WHEEL LIFE IMPROVEMENT

By working closely with our customers **we have been able to increase wheel life up to an average 1.7 million km**

## WORLDWIDE EXPERIENCE

Our products are currently in service throughout the world, **giving us a wide experience of all extreme conditions : -40°C to +45°C, desert, arctic, tropical, mountain, steep gradients...**



## QUALITY AND SAFETY

Special steels, specific heat treatments and optimised wheelset design not only enhance life and increase payloads **but also significantly improve railroad safety**

## OUR MAIN REFERENCES

**Australia :** BHP Iron Ore, FMG, Rio Tinto

**Brazil :** MRS Logistica, Vale

**Canada :** Arcelor Mittal Mines, QNSL, Wabush Mines

**Gabon :** Comilog

**Mauritania :** SNIM

**Saudi Arabia :** SAR

**South Africa :** Transnet

**Sweden :** LKAB



**VHD®****Valdunes Heavy Duty****HEAVY HAUL****INCREASED PAYLOAD****QUALITY & SAFETY****WHEEL LIFE IMPROVEMENT**

**Tailor-made solutions** from our R&D department adapted to your specific requirements. Hardness and steel grades designed according to your applications

**Surpass AAR M107/208 requirements** (Class C mod 2, Class C mod 3 and Class D solutions)

**Very high cleanliness** and especially developed steel grades (with targeted micro-alloying)

**Optimized wheel and wheelset geometries** to improve life, reduce wear and weight and improve safety



- **More than 30 years experience** in heavy haul transportation
- **Partner in the TTCI (AAR-USA)** high performance wheel. Programs 1 and 2 (HPW1-HPW2)
- **Wheels have been used for more than 5 years with a good performance.** Experience has been used to participate in the new HPW2 program starting in 2017

