



Iron Ore Car Testing In Canada

Case Study



LKAB's iron ore operation is unique, as it is an underground mine rather than an open cut. Key to their operation is an underground ore transport system, a network of standard gauge rail lines with specialized ore transport cars.

The Canadian based **Nordic Mine Technology (NMT)** Inc was contracted to undertake the design and manufacture of these special ore transport cars.

Interfleet was selected by NMT to undertake the acceptance testing of the cars. With world-class testing competence in Stockholm combined with local knowledge and technical competence from the Interfleet Canada team, Interfleet was a natural choice.

In order to test the cars, NMT constructed a 738m long rail line outside their workshops in Canada, equipped with some representative curves and complete loading and unloading stations.

During September 2009, a team of engineers comprising staff from Sweden and Canada arrived at NMT's facility to instrument the vehicle with; two load measuring wheelsets, a custom built instrumented coupler, accelerometers, displacement transducers, a gyroscope and a positioning system.

Over the next few weeks Interfleet and NMT performed static tests and then ran the cars over the test track, varying speed and loading conditions to evaluate the performance of the cars.

The project benefited from both the strong competence, extensive experience, agility and client focus of the Interfleet team and demonstrated Interfleet's ability to deliver successful projects worldwide.



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