

CaseStudy

Engine Division



BOLIVIA – REMANUFACTURED ENGINE

Engine model: Waukesha 12V-AT27GL

Power	3,140 Horsepower	Length	14.3" (3.63 Meters)
Speed	750 – 1000 RPM	Width	6.2" (1.57 Meters)
Height	10.6" (2.70 Meters)	Weight	52,000 lbs. (23,560 kg)

FACTS IN BRIEF

- Customer failed engine
- Customer wanted to have same engine model but was unable to replace it with new engine (discontinued)
- Very critical piece of equipment
- Customer was looking at custom shop overhaul or field fix
- WPI Canada's offer: Remanufactured engine with same warranty as new engine
- Only two other solutions were offered to the customer:
 - CAT engine retrofit
 - Other options for similar engines in Asia but without/very short term warranty

CORE ENGINE – REMOVAL & TRANSPORTATION

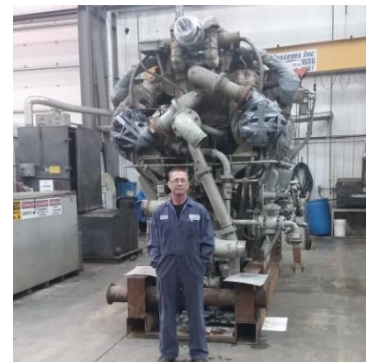
- Roof removed from compressor building
- Engine prepped to dismantle from skid and compressor
- Crane used to lift engine out of compressor station
- Approximate weight of 12V AT27GL engine 51,000 lbs (23,000 kg)
- Outside temperature -40°C
- Engine loaded onto shipping skid and truck
- 9-hour transportation journey by road to Spruce Grove



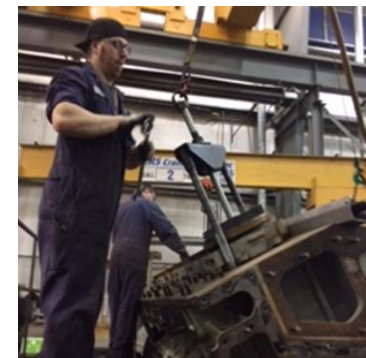
Core Engine Removal



Core Engine Transportation



Arrival in Spruce Gove



Tear Down Process begins...

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RESULTS

- Customer got a reliable engine with same warranty duration
- Fast engine exchange, short downtime
- Perfect match with generator
- Instrumentation upgrade, TCM II

WHY DID OUR SOLUTION WIN OVER ALL OTHER OFFERED SOLUTIONS?

Because WPI focused on fulfilling all customer requirements:

- First part of project was critical since customer had many questions/requests
 - WPI held video conference to clarify questions and discuss requirements
 - WPI sent personnel down to Bolivia for assuring a “plug and play” solution as possible
- WPI provided performance evaluation using Windrock testing
- WPI invited end-customer to visit facility in Spruce Grove for Dyno testing of Engine



Tear Down Process



Before Process – Work in Progress

