Case Study: AdaptSMU

We saved a major mining company US$2.55M by **identifying burn rate anomalies on haul trucks.**

Problem

Ensure the burn rate for an entire fleet located on a major South American mine site were operating at a standardised and maximum efficiency level.

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Solution

VERIDAPT's wireless identification tags, Adapt**SMU**s, were deployed to all haul trucks to independently capture engine hours in order to calculate accurate burn rates. A number of Cat 797B haul trucks servicing the site were consistently operating above the expected fuel burn rate of 229-267 litres per hour. This provided the client with the necessary data to identify trucks operating above the expected burn rate and rectify the problem. The Adapt**SMU**s accurately captured engine hours, which combined with fuel consumption provided a precise fuel burn rate per truck.

The client found that the Adapt**SMU** tag was compact and rugged, with a push button design providing operators with tactile feedback, a streamlined installation process and with a long battery life.

Benefit

The client achieved a 1.7M litres per year drop in fuel consumption by identifying trucks operating above the expected burn rate. That equates to US$2.55M in reduced fuel costs. The client also learned that identifying and rectifying fleet maintenance problems immediately or predictively would generate future savings on fuel.

Average Burn Rate by Haul Truck
9 months of data

Cat 797 B

Above high consumption expected range

Avg = 280.0

VERIDAPT