Goldfields Logistics

Case Study
RTMS - PBS
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Goldfields Logistics Overview

210,000 m² managed warehouse space
84,000 m² owned warehousing

REVENUE
R1 billion

staff compliment
950

22 million kilometres travelled each year
13 million litres of fuel used each year

18 operating sites across South Africa
five depots | four workshops

RESPONSIBLE environmental practices

200 + 65 forklifts
85,000 loads per year
RTMS

- Goldfields Logistics is proudly RTMS accredited since 2013.

What are the benefits of RTMS accreditation?
- Transport operators who invest in becoming RTMS accredited are recognized for their commitment to responsible business through a series of concessions.
- The most notable is the opportunity to investigate the implementation of the Performance Based Standards Vehicles (PBS).
- Decrease in traffic violations.
- Decrease in axle overloads.
- Yearly medical assessments for drivers.
Background of the PBS vehicles – N2 North

• In 2015, a decision was taken between Goldfields Logistics and Sappi to do a case study for the implementation of a PBS vehicle between Tugela and Durban.

• The decision was to implement one PBS vehicle so we could retrieve a comparison between the three baseline vehicles and the PBS vehicle on the same route.

• The PBS assessment was done by the CSIR and the concept was approved by the KZN Department of Transport.

• The PBS vehicle was commissioned in September 2016.
PBS Vehicle Configuration – N2 North

25.8m PBS Vehicle
# Comparison between PBS and Baseline Vehicles

Data between October 2016 to July 2017

<table>
<thead>
<tr>
<th>Measure</th>
<th>PBS(1)</th>
<th>Baseline (3)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM’s covered</td>
<td>137,317</td>
<td>435,409</td>
<td>32% Less km travelled</td>
</tr>
<tr>
<td>Tons moved</td>
<td>37,493</td>
<td>80,863</td>
<td>-</td>
</tr>
<tr>
<td>Average Payload</td>
<td>46.8</td>
<td>34.2</td>
<td>27% Increase in payload</td>
</tr>
<tr>
<td>Fuel Consumption (km/l)</td>
<td>1.55</td>
<td>1.91</td>
<td>19% of fuel saved if all loads were done by PBS vehicle</td>
</tr>
<tr>
<td>CO² Emissions (ton)</td>
<td>232</td>
<td>599</td>
<td>11% Less Carbon Emissions if all loads were done by PBS vehicle</td>
</tr>
</tbody>
</table>
Background of PBS vehicles – N2 South

- In 2016 Sappi Saiccor Distribution went out on Tender.

- Goldfields Logistics was awarded the tender and was nominated one of two service providers to transport product from Umkomaas to Durban.

- Four PBS vehicles were commissioned for this contract in August 2017.
PBS Vehicle Configuration – N2 South

22.039m PBS Vehicle
## Comparison between PBS and Baseline

Data between August 2017 to October 2017

<table>
<thead>
<tr>
<th>Measure</th>
<th>PBS (4)</th>
<th>Baseline</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM's covered</td>
<td>135,796</td>
<td>46,600</td>
<td>28% Less km’s travelled if loads were done on a PBS vehicle</td>
</tr>
<tr>
<td>Tons moved</td>
<td>65,354</td>
<td>16,527</td>
<td>-</td>
</tr>
<tr>
<td>Average Payload</td>
<td>49.32</td>
<td>35.50</td>
<td>28% Increase in payload</td>
</tr>
<tr>
<td>Fuel Consumption (km/l)</td>
<td>1.74</td>
<td>1.91</td>
<td>21% of fuel saved if all loads were done by PBS vehicle</td>
</tr>
<tr>
<td>CO² Emissions (ton)</td>
<td>205</td>
<td>64</td>
<td>20% Less Carbon Emissions if all loads were done by PBS vehicle</td>
</tr>
</tbody>
</table>
Benefits of PBS Vehicles

• Less congestion at loading and off-loading points
• Reduction of vehicles on the road
• Dedicated routes
• Less carbon emissions
• Higher payloads
• Offers a cost saving solution to customers
Thank You

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