



**SMARTGAINS** + + +™

## CASTROL SAVES OPERATOR UP TO 52 TONNES OF POLYETHYLENE WASTE PER YEAR WITH IMPROVED PRODUCT PACKAGING

How Castrol's SmartGains methodology improves storage capacity, reduces waste, and minimizes environmental impact.



### THE PROBLEM: HIGH FLUID CONSUMPTION RESULTS IN HIGH HSSE RISKS

The unique operating conditions of a Castrol customer meant a very high consumption of subsea fluid was required. This pattern persisted over time, which meant a substantial amount of 200 litre capacity plastic drums being transported from our warehouse to the customer using diesel engine trucks. Multiple trips were needed, which increased the carbon footprint of the client's operations. The packaging was recyclable, yet the customer wanted to avoid use of plastic, which was handled back to onshore to be discarded. In addition, up to 3,000 drums were being stored at Castrol's warehouse as well as at the client's warehouse and also at the offshore production platform, creating higher HSSE risks.

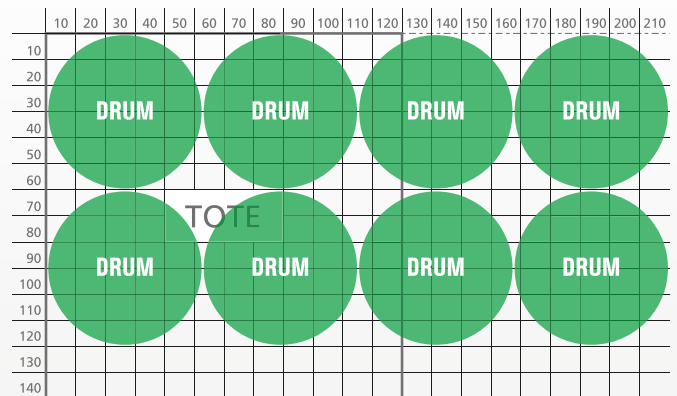
### THE SOLUTION: OPTIMIZED, RECYCLABLE PACKAGING

Following our SmartGains methodology, our solution was to design larger packing that reduces the HSSE risk. We also changed the specification of the packaging to make it reusable, reducing the amount of carbon produced throughout its lifespan.

The final design was a 1,500 litre tote that is metallic, returnable and reusable, solving all challenges with one innovative solution.

### THE RESULTS: GREATER EFFICIENCY, LESS WASTE

The new packaging delivered a range of measurable benefits. First of all, 1,500L packaged into totes requires 38.2% less storage space to the equivalent volume of product packaged in drums.



This efficiency was also seen on the trucks, as the capacity per trip increased from 16,000 litres (80 x 200 litre drums) to 18,000 litres (12 metallic totes x 1,500 litres). This 12.5% increase means more fluid being transported per journey, thus reducing carbon emissions through lower fuel consumption per litre.

By making the packaging returnable and recyclable, we also reduced the amount of polyethylene waste by up to 52 tonnes per year.\*

IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.



## THE FIGURES: SMARTGAINS ACHIEVED

Our simple, interconnected interventions across your lubrication and maintenance strategies can help you deliver significant value for your business. We call them Castrol SmartGains, providing measurable improvements across three key areas:

**38.2%**

reduction in storage requirements



**52 tonnes**

of polyethylene waste avoided



**12.5%**

reduction in delivery mileage



## CASTROL SMARTGAINS

Our simple, interconnected interventions across your lubrication and maintenance strategies can help you deliver significant value for your business. We call them Castrol SmartGains, providing measurable improvements across three key areas:

### Asset optimization

Helping you maximize the operation and productivity of your asset.

### Risk mitigation

Minimizing unnecessary costs and delays during build and operation to ensure safe, high-performing assets.

### Supply chain effectiveness

Optimizing what you order and when, to ensure reliable supply in a cost-effective manner.

\*Based on the number of single use plastic drums avoided in a 24-month period of maximum contractually permitted supply

