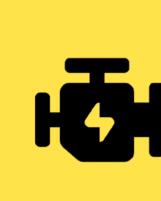


# WHAT YOU NEED TO KNOW ABOUT EU STAGE V HYSTER® BIG TRUCKS

Hyster has always been at the forefront of environmental technologies. Here's why and how Hyster has brought Stage V engines into its Big Truck range, leading to 3 big benefits. CONTAINER 45





### 0-751 HP Stage V emissions regulations now

CAI

apply to all engines with up to 751 hp (>560 kW) of power in the EU.

UNIT45.com



# **UP TO 52T**

Affects all lift capacity lift trucks, container handlers and ReachStackers.

Standards for trucks over 6T lift capacity (>75hp) are different. These are shown below.



# Diesel engines should reduce

**0.4g NOx** 

nitrogen oxides (NOx) to just 0.4g/ kW-hr. This is a 45% reduction\*. 0.015g PM

# Diesel engines should reduce

Particulate Matter (PM) to just 0.015 g/kW-hr, which is a 90% reduction\*. \* compared to the previous Stage IV emissions standards.

# HOW DID HYSTER DO IT ON BIG TRUCKS?

to achieve these standards: **EGR** 

technologies with Mercedes-Benz Stage V engines

Hyster used a combination of the following

### Cooled EGR re-circulates a varying proportion of the exhaust gas back to the cylinder. This reduces the oxygen content to a lower

SCR To neutralize NOx in the exhaust, a urea solution known as diesel exhaust fluid (DEF\*)

is introduced. The exhaust gasses are mixed

in a catalytic converter which reduces the

NOx to Nitrogen and Oxygen elements.

combustion temperature resulting in less NOx.

# an aftertreatment component that converts

DOC

carbon monoxide (CO) and hydrocarbons into carbon dioxide (CO2) and water.

Diesel Oxidation Catalyst (DOC) which is

an aftertreatment component that converts

carbon monoxide (CO) and hydrocarbons

Diesel Oxidation Catalyst (DOC) which is

## PARTICULATE FILTER To neutralize NOx in the exhaust, a urea solution known as diesel exhaust fluid (DEF\*)

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**ENERGY SAVINGS** 

into carbon dioxide (CO2) and water.



have a greater impact on the cost per container moved.

of up to 20% for ReachStackers and our 40-52T lift trucks.

low ash lube oil and particulate filter.

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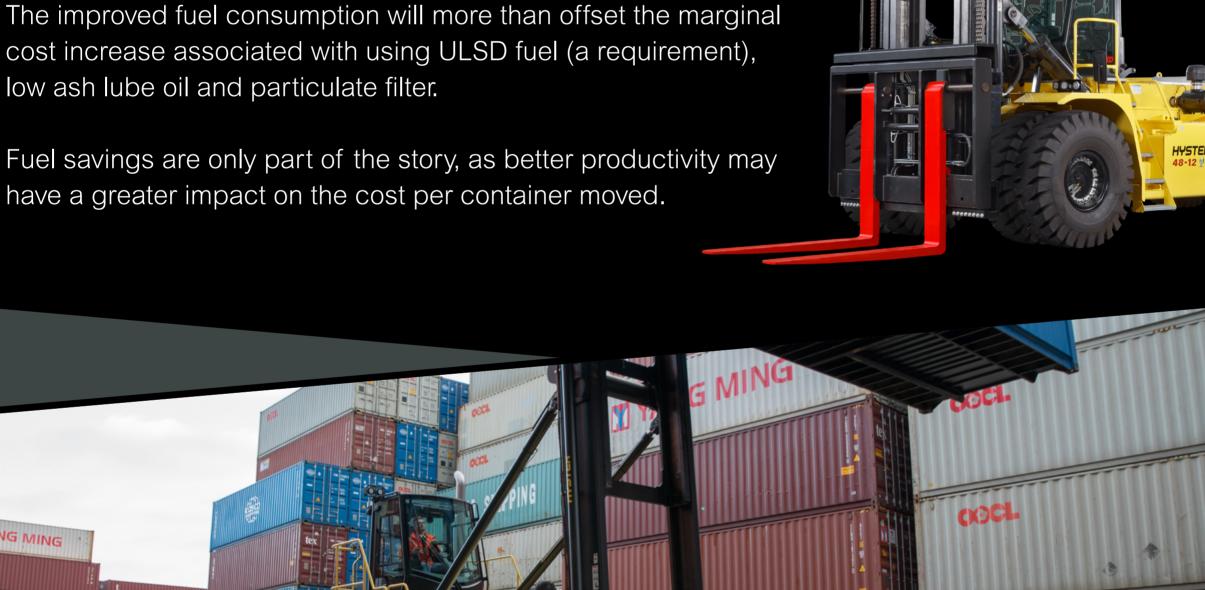
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PRODUCTIVITY

# **productive** than a comparable product. That is 12% more containers that can be moved in a day reducing the cost per tonne

**FAST ENGINE** 

**RESPONSE** 

QUIET

**MORE PRODUCTIVE** 

**MORE LOADS** 

A POWERFUL SOLUTION

With excellent power response, operators can expect improved equipment

Real-life testing shows that the Hyster ReachStacker can be up to 12% more

productivity together with the benefit of cleaner, quieter operation and reduced fuel

costs.

moved.

The way Hyster has approached Stage V means that while the fuel savings are significant, the

**HIGH TORQUE IN** 

**LOWER RPMS** 

balance for businesses, and for their drivers. Tough Hyster Stage V trucks - perfect for seasonal peaks and tight timescales when trucks are pushed harder.

productivity of Hyster trucks with Stage V

engines is exceptional. This provides the best **GET THE WHOLE STORY IN OUR FREE WHITE PAPER CONTAINER HANDLING & THE CO2 ROADMAP** 



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