



HOW SEMCO IC COATING IMPROVED INNER CLEANLINESS BY REDUCING PARTICULATES BY MORE THAN 50%

PARAMETER:

Alloy:	Grey Iron
Casting Weight:	106 kg/ piece
Casting Temp.:	1410-1420°C
Poured Weight:	2 pieces in a box – 280kg
Pour Time:	approx. 18 sec
Moulding Process:	greensand/ coldbox and shell

SEMCO IC - COATING FOR IMPROVED INNER CLEANLINESS

FOUNDRY:

Swedish automotive foundry manufacturing engines for Industrial Vehicles, Buses and Earth Moving equipment as well as for heavy duty boats and yachts.

FOSECO PRODUCTS

- SEMCO* IC Coating
- SEMCO Coatings
- SEDEX* Filters
- FEEDEX* Sleeves

KEY BENEFITS

- Reduced remaining particulate by > 50%
- Improved engine service interval
- Reduced cleaning time
- Improved engine performance



Remaining particles end up in oil and coolant reservoir



Fully defect free and clean internal channels



THE CHALLENGE

The customer wanted to improve engine service intervals and life cycle, in particular for ship engines. Additionally they intended to achieve reduced emissions and match latest Euro 6 engine requirements while improving engine performance at the same time.



OUR SOLUTION

Today the influence of a coating applied goes way beyond the actual cast component; it can beneficially modify the metal matrix, resulting in an improvement in the performance of the final engine. The newly developed SEMCO IC is designed to remove adhering particles from intricate geometries and totally met the customers requirements.



THE OUTCOME

Through the use of the new SEMCO IC Coating the remaining particulate could be reduced by more than 50%. Additionally an extended service intervals, especially for ship engines, reduced cleaning times and an improved engine performance could be achieved.