

# The range of SOCON survey trucks – fleet expanded by addition of new units



S113



L107

SOCON's survey truck fleet is made up of a range of various types of vehicles. The size of the vehicle used for a specific job depends on the work that is to be done. To cover our whole range of operations the fleet includes a 3.5-tonne truck for shallow depths and lightweight duties as well as a panoply of heavy vehicles of 10 to 21 tonnes offering cable lengths of up to 6500 meters.

In the past the survey trucks were equipped with cranes that could lift medium-sized loads. These cranes were used by the crew solely to set up and dismantle pressure lubricator equipment when this was needed.

In the meantime, however, our vehicle fleet has survey trucks which are fitted with large cranes. These special vehicles are designed and built in cooperation with a vehicle construction company. The cranes on these heavy trucks have an extension of up to 14 meters and can be used for a wide range of duties during survey operations and even for special crane applications.

H. von Tryller



L102



L103



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L106

# The new S113 survey truck – a new vehicle concept

Greater onsite flexibility is now provided by the new S113 survey truck made up of a tractor-trailer combination. The design of the combination, with the cable winch on the trailer unit and the crane on the tractor, enables the equipment to be optimally positioned at the borehole. It is planned to put another unit of this type into service in spring 2006.



The trailer unit, which includes an electrically powered winch and its own power supply, is installed on a separate, disconnectable trailer. If required all the auxiliary equipment and a pressure lubricator system can also be loaded on the trailer.



The size of the derrick is such that it can be used not only for the usual loading and unloading of materials but also during the survey itself for suspending the upper sheave for the survey cable. An integrated rope winch facilitates the raising and lowering of a small pressure lubricator system. By having the crane mounted on the tractor it is possible to maneuver the vehicle to the optimum position at the cavern site. This versatile vehicle combination represents a new generation that is even more flexible than past systems.



T. von Tryller

### Technical specifications S113:

S113:

Overall length of vehicles: 11,0 m  
Permissible max. weight: 32,0 t

Tractor:

Length: 6,0 m  
Width: 2,6 m  
Height: 3,5 m  
Weight: 10,2/17,5 t

Trailer:

Length: 6,7 m  
Width: 2,5 m  
Height: 3,6 m  
Weight: 6,2/14,5 t

Power supply:

Internal diesel generator  
Make: HONDA  
Output: 11 KWh

Cable winch:

Type: SOCON KW  
Drive: electric  
Brake system: 2 circuits  
Cable length: 2750 m

Crane jib:

Hook clearance: 14.3 m with 3 m absolute clearance  
Load range: 1.6 to 8.3 t  
Rope winch: up to 2.7 t  
Rope length: 40 m



L108



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