

CASE STUDY

BP NORGE
BP ULA (NORWAY)



INDAR SP UGP

There are 3+1 Indar submersible motors installed in BP ULA platform, North Sea NORWAY. This field is

operated by BP NORGE. Retrofit Engineering: AKER SOLUTIONS-NORWAY.

Indar

Ingeteam Group

Motor: ML-60S-4/140-NCE

N: 100815,100915,
101015,101115

n: 1765 (rpm)

6600 (V)

I: 101 (A)

P: 820/1102 (kW/HP)

Cos φ: 0,81

f: 60 (Hz)

Insul.cl.

Temp. rise

IP- 68

**ROT.
DIREC. β**

2015

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Ingeteam Group



The platform ULA is located in approximately 70 m deep water. The main reservoir stands at 3,345 m in the Upper Jurassic Ula Formation. The field has three conventional steel facilities with production, drilling, living quarters. It has 7 production and 2 water injection wells. Current production at Ula field is 10,000 bbl/d.

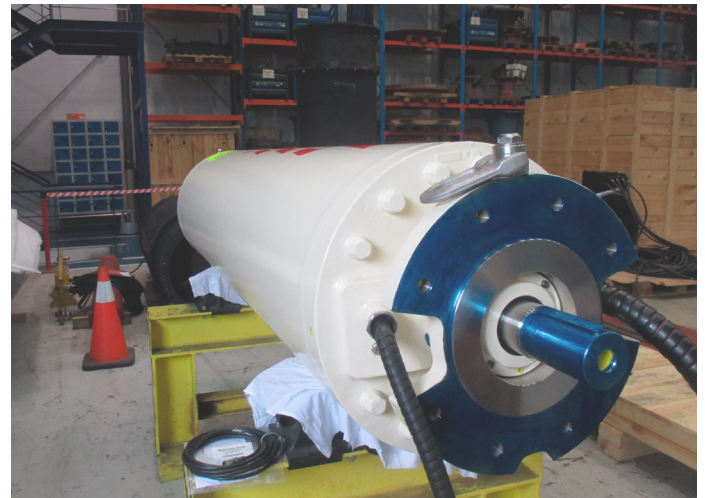


The new submersible motors were manufactured according to exigent NORSOK standards (Materials according to M-650 and painting according to M-501).

The existing submersible pumps from another pump manufacturer suffered from premature corrosion. INDAR was selected to present the right solution to the problem. All Sea Water Lift Pumps were substituted with Indar Submersible motors.

Indar developed a new Header Tank Auxiliary System to examine the water, to take samples and to replace the internal motor water –glycol mix without the need to remove the unit.

The purpose of the system is to check presence of salinity inside the motor to either replace the whole liquid or to prepare preventive maintenance.



To ensure adequate sample results, the water-glycol mixture will be circulated amongst its closed circuit, brought from inside the motor through the hoses to the Header tank on the platform.