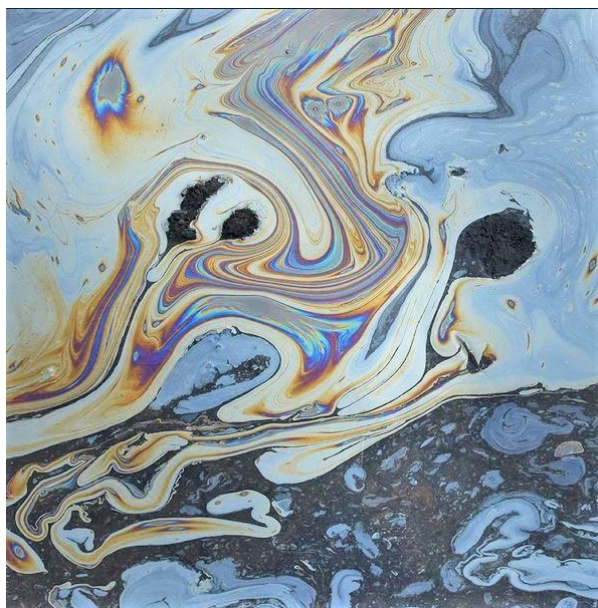


Oily water pumping – Gibraltar

Market segment	Industry
Application market	Oil & Gas
Pumped medium	Oily water
Pump product	Immersible with internal cooling
Country	Spain (Gibraltar)



Challenge

Oily water had to be fed to the oil separator from a production and treatment process. Due to the typically high shear forces acting on the impeller, oily fluids tend to disperse when pumped using conventional pumps. This can lead to the formation of emulsions, which impairs throughput, extends the residence time in the separator, and generates correspondingly high operating costs.

Solution

Due to the low shear forces acting on the impeller and the resulting exceptionally gentle pumping characteristics, the **Hidrostat Screw Centrifugal Pump** was selected for the task. The single-blade impeller pumps the mixture with minimal turbulence and minimal mechanical stress. This ensures that the oil droplets remain intact during the pumping process.

Benefits

The task could be solved to the full satisfaction of the customer:

- ➔ Reliable separation of oily water without emulsion formation
- ➔ Trouble-free, reliable and efficient operation of the oil separation process
- ➔ Optimization of downstream processing by maintaining the integrity of the separation system

Quantity of units sold	3
Pump type	F06K-SMN6RS + FEVB4
Motor data	40 kW / 4-pole / 50 Hz / 400 V / 1480 rpm
Material combination	Drive unit in cast iron, wetted parts in Duplex stainless steel
Duty point	Flow (metric) : 92 liters per second / Head : 25.2 meters Flow (US) : 1467 US gallons per minute / Head : 82.7 feet
In operation since	2023