Oil & Gas

Eureka Pumps

Giant pumps tested in real conditions

Upon request from its customer which operates oil fields, Eureka Pumps, a Norwegian pump manufacturer, has conducted real-condition tests on one of its pumps in order to validate its dimensioning choices.



OUR CUSTOMER

Corporate name Eureka Pumps (Align Group)

Activity

For more than 40 years, Eureka Pumps has designed and manufactured highpower pumps and generators as well as safety equipment for the oil sector (onshore and offshore) and the maritime sector, in addition to water treatment and transport equipment. The company, based in Oslo (Norway), is also present in Europe, Houston (Texas, USA), Busan (South Korea) and Kuala Lumpur (Malaysia).

2014 turnover

Align Group: 159 million Euros (2014) esting a staged pump weighing more than 7 metric tons in real conditions with a liquid which is 1,000 times as viscous as water: this is the challenge met by Eureka Pumps, a manufacturer of largedimension pumps.

Confirm calculations

In order to size their equipment, the Norwegian specialists usually use performance curves obtained by testing equipment in water and subsequently corrected with empirical correlation formulas. However, for pumps intended for an offshore platform off the coasts of Canada, "the three formulas used gave rise to results in terms of power requirement which varied by more than 20%, explains Cato Knutsen, senior engineer in charge of the project at Eureka Pumps. Therefore, the future field operator demanded that we carry out tests in real conditions in order to make sure that the extraction device would work properly when started."

Two types of tests

As Eureka Pumps was unable to perform the tests by itself, it entrusted two types of tests to Cetim experts: multi-physical tests with a viscosity of 1,075 centipoises



Cetim's asset Cetim can design test loops for very large pumps in extreme

Conditions and possesses the equipment required to perform tests.



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