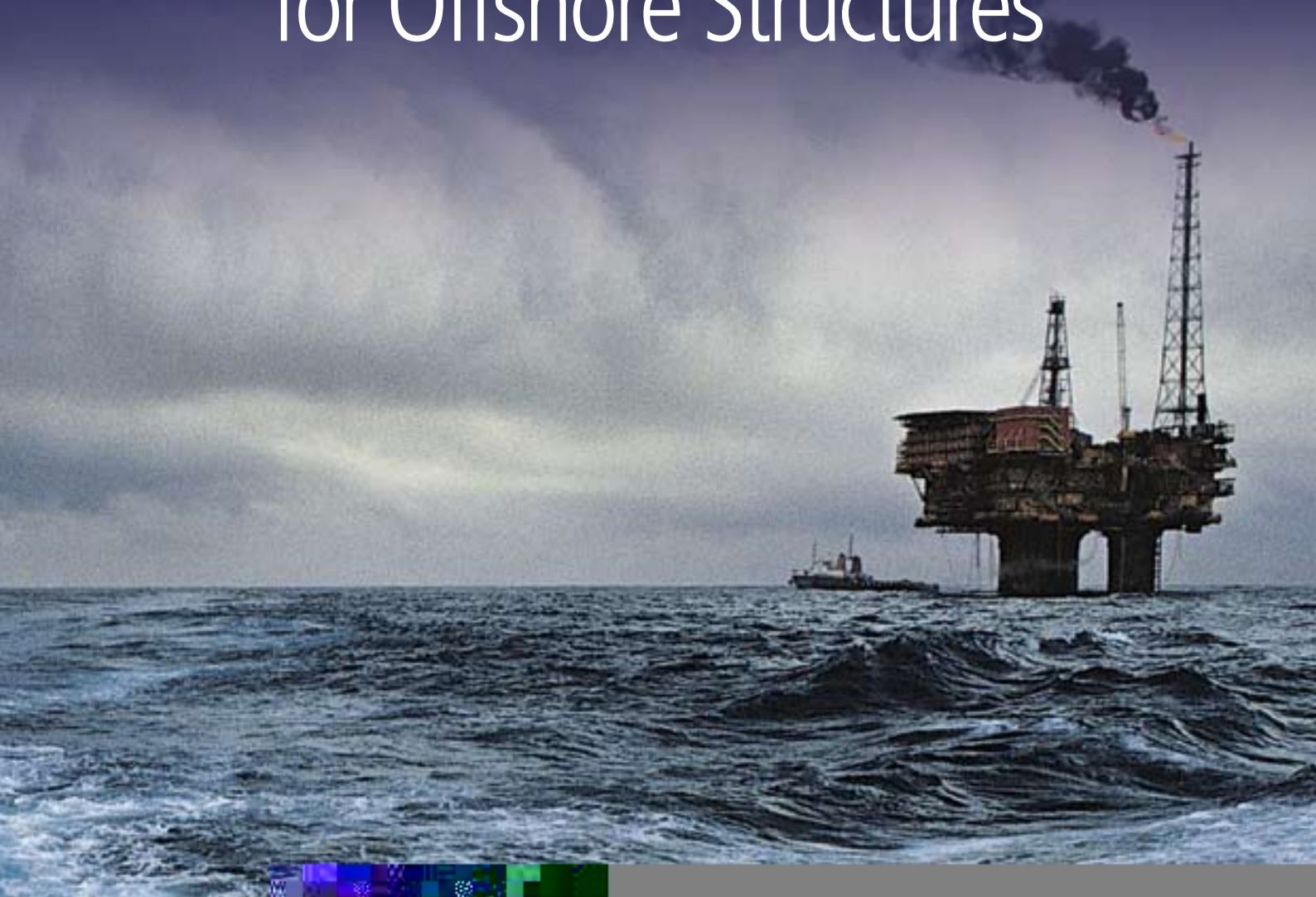




# JOTUN

## Protective Coatings for Offshore Structures





*Jotun companies in 67 countries*



*40 production facilities globally*



*More than 5,000 employees*



*Worldwide service and support*

## Jotun World-class – Worldwide

### **A world leader in offshore protection**

Jotun is a world leading manufacturer and supplier of world-class protective coatings for offshore and subsea structures, support vessels, drilling rigs and FPSOs, providing the most effective methods of protection against corrosion.

### **Experience gained in the toughest environments**

Nowhere has Jotun's special expertise in the science and technology of corrosion protection been more evident than in the severe environmental conditions of the North Sea. This experience, gained over almost 30 years, has been the valuable basis for Jotun's long lasting coating systems for offshore structures.

### **Systems proven across the globe**

Jotun coatings provide lasting protection, ease of application and unrivalled life cycle cost advantages, paying real dividends year after year. Jotun coating systems are proven across the globe on offshore

structures operating in oil fields in the North Sea, the Atlantic, the Gulf of Mexico, offshore Brazil, West Africa, the Persian Gulf, India, the Caspian Sea and the Pacific Rim.

### **A truly worldwide operation**

As a truly worldwide operation, with factories and offices in more than 60 countries on five continents, Jotun's significant international network provides the highest standards of local service.

It is backed by the resources of a group committed to excellence that has consistently stretched the boundaries of people and product performance to achieve its world leading position.

### **Close by – wherever your project is located**

Wherever your project may be in the world, Jotun is close by, providing technical service and support combined with lasting, high performance, quality products all designed with the aim of providing long term protection.



*Ekofisk platforms in the North Sea – painted offshore 20 years ago with 2 x 700 microns Baltoflake.  
Still in very good condition without maintenance.*

## Protection of Offshore Structures – More than 30 Years Experience

### **The Ekofisk Field. Southern North Sea of Norway**

The southern part of the North Sea sector became important for Jotun's offshore activities at an early stage when, in 1971, Ekofisk became the first Norwegian offshore field to come on stream. Ekofisk serves as a hub for petroleum operations in this area with several fields utilising the infrastructure to transport via the Norpipe system to the continent of Europe.

### **Jotun systems chosen for 18 separate platforms**

ConocoPhillips, who currently operate the Ekofisk field, chose Jotun quality offshore maintenance coating systems for their 18 separate offshore platforms. Especially cost beneficial is the Baltoflake high build polyester glassflake system which documents more than 25 years of excellent corrosion protection of platform legs and the underside of platform decks.

Jotun is the main supplier of maintenance coatings to the Ekofisk field.



*Ekofisk Platform*



# Innovative Advanced Structures Benefit from World Proven Protection Systems

## Protecting the most advanced and innovative FPSO

Jotun supplied the protective coating systems for Sevan Piranema, the world's most advanced and innovative FPSO.

Constructed at the Yantai Raffles Shipyard in China with outfitting and processing plant assembly at Keppel Verolme Shipyard in the Netherlands, Sevan Piranema, the first of Sevan Marine's unique and innovative cylindrical shaped platforms, left Europe in January 2007 on its journey for installation off Brazil where it is contracted to Petrobras.

## Jotun systems chosen for the SSP units

Several of Sevan Marine's SSP units on order are to be protected by Jotun coating systems.

## Aker H-6 the world's largest semi-submersible rig

The Aker H-6 rig, the largest semi-submersible rig in the world is also protected with Jotun coating systems. It is designed for exploration and development drilling of long reach horizontal wells of more than 10,000m measured depth and for operations in water depths down to 3,000m in hostile environments such as the North Sea and in environmental conditions found in Brazil, Gulf of Mexico, Barents Sea, Canada and West African waters.

## Supplying coatings systems to Kashagan – Caspian Sea

Jotun is also supplying coating systems to Kashagan in the Caspian Sea, the world's largest on- and offshore oil field. The project involves coatings for supply vessels, offshore barges, tank ships, pipe trenches and industrial buildings.

*Sevan Piranema*



*Aker H-6 the world's largest drilling rig*



*Kashagan, Caspian Sea, the world's largest on- and offshore oilfield*



# Jotun – Laying the Foundations for Economic, Long Term Protection

The choice of the initial protective coating system for an offshore project can be critical if long term protection with economy is to be achieved. The difference in cost of applying coatings onshore compared with maintenance painting offshore can be dramatic.

## **Counting the cost of corrosion protection**

Corrosion protection represents only a minor part of the total cost of an offshore installation. However, over a period of time, this can represent an increasing part of overall maintenance costs.

## **Achieving long term protection with economy**

Extensive research and development has positioned Jotun as a leader in protective coatings. By consistently stretching the boundaries of its people and the performance of its products, Jotun has achieved its position as a world leader in coatings technology, technical service, support and training. Whenever you need optimum, cost effective protection of your valuable assets, Jotun is close to you, providing quality, reliability and friendliness.

*Whatever the structure – protection with Jotun coatings*



*Sedco Energy*



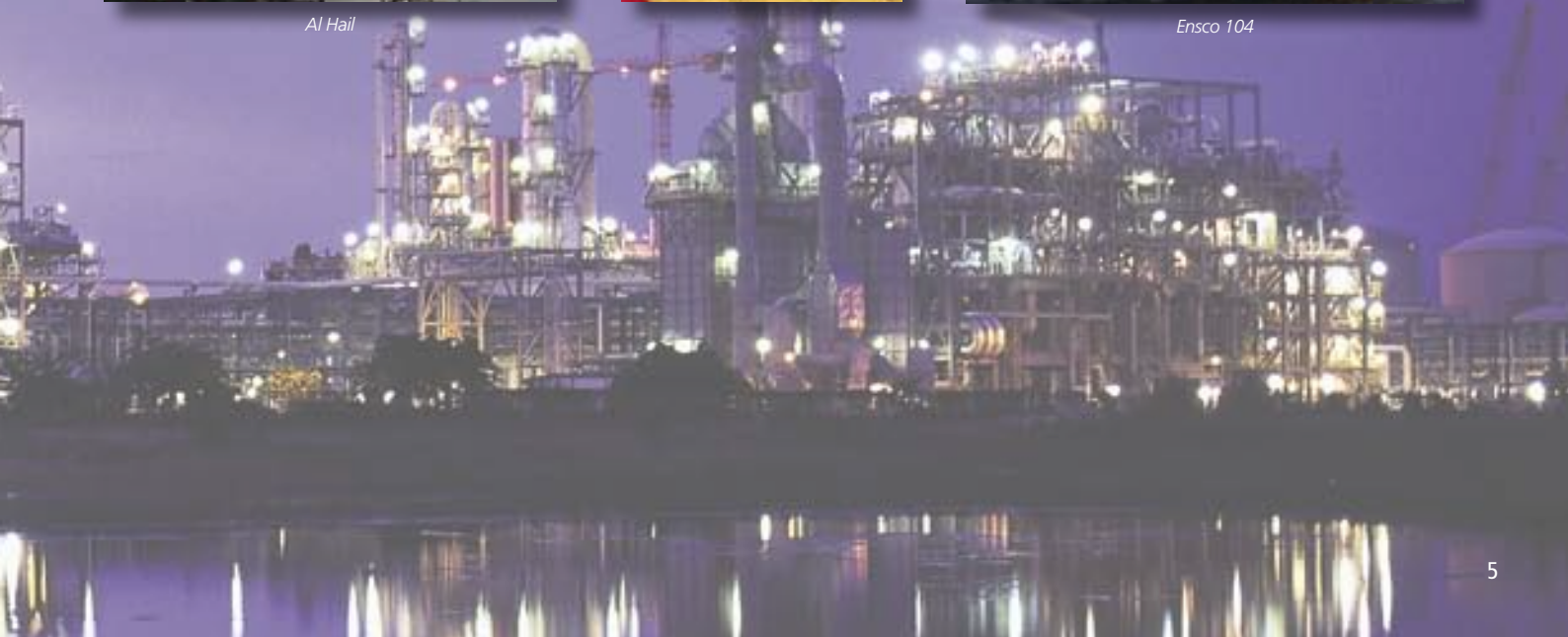
*Puteri Cakerawala FPSO*



*Al Hail*



*Ensco 104*





# Combining Innovation, Expertise, Experience and Reliability

Products do not just happen, they are the result of dedicated research and development geared to legislation and market needs.

## Combining technology, innovation, knowledge and experience

A large group of scientists at Jotun in Norway and at its regional laboratories in China, Korea, Malaysia and U.A.E. work closely together. They combine state-of-the-art technology and innovative thinking with practical knowledge and experience to deliver high quality products which offer value and performance and which safeguard health, safety and environment.

## Systems pre-qualified to NORSOK standards

As a proof of protective performance, Jotun has a number of painting systems which have been tested and pre-qualified to NORSOK standards.

They involve coatings which have shown excellent results over the last 25 years, both alone and in combination with cathodic protection.



NORSOK M 501 specification, to verify the durability of the various painting systems, describes a set of pre-qualification tests to be carried out by an independent test laboratory with very specific and strict acceptance criteria.

Jotun coating systems for the offshore industry have earned their place as reliable, high performance, cost effective solutions to corrosion.

*For a full list of Jotun coating systems pre-qualified to NORSOK standards go to [www.jotun.com](http://www.jotun.com)*



# A World Proven Product Range

Jotun provides corrosion protection products and systems which meet the demand for abrasion resistance, resistance to corrosive chemicals, water, heat resistance and durability as well as environmental needs. Systems meeting low VOC requirements are available for all areas including solventless, solvent free and water-borne systems. Jotun product categories for the offshore market are:

## Jotun's Anticorrosive Category

Jotun's Anticorrosive Category comprises products which offer long term corrosion protection.

A selection from this category includes:

Jotamastic 87	Epoxy mastic
Jotamastic Plus	Epoxy mastic
Jotamastic 80	Epoxy mastic
Jotamastic Smart Pack	Epoxy mastic
Jotacote Universal	Anti abrasion pure epoxy
Jotacote HF002	Anti abrasion pure epoxy Increased flexibility at high DFT
Tankguard 412	Solvent free pure epoxy tank lining
Tankguard Storage	Phenolic epoxy
Jotamastic 87 GF	Epoxy glass flakes
Marathon XHB	Epoxy glass flakes
Baltoflake series	Polyester glass flakes
Solvalitt	Silicone acrylic heat resistant
Barrier series	Zinc rich epoxy
Resist series	Zinc rich silicate

## Jotun's Topcoat Category

Jotun's Topcoat category provides excellent finish whatever the structure.

A selection from this category includes:

Hardtop AS	Polyurethane
Hardtop XP	High solid polyurethane
Hardtop Flexi	Flexible high solid polyurethane
Hardtop PS5	Polysiloxane
Jotaproof Topcoat	Two pack acrylic
Penguard FC	Epoxy finish
WaterFine Topcoat	Water-borne acrylic

## Jotun's Antifouling Category

Jotun's Antifouling Category provides fouling free protection on submerged areas.

A selection from this category includes:

SeaQuantum Ultra	Suitable for static exposure
Sealion	Suitable for underwater cleaning

## Jotun's Speciality Products

A selection of specially developed products:

### Baltoflake

A high build glassflake reinforced polyester coating which provides impermeable protection of steel against abrasion and corrosion however hostile the environment.

### Marathon XHB

An ultra high build glassflake reinforced epoxy coating with excellent impact and abrasion resistance – providing long term corrosion protection.

### Jota Armour

A high solid epoxy. Quick and easy solution for decks, loading ramps and walkways providing excellent anti-skid properties.

### Jotaproof Topcoat

A two pack isocyanate free acrylic topcoat with excellent gloss and colour retention.

### WaterFine coatings

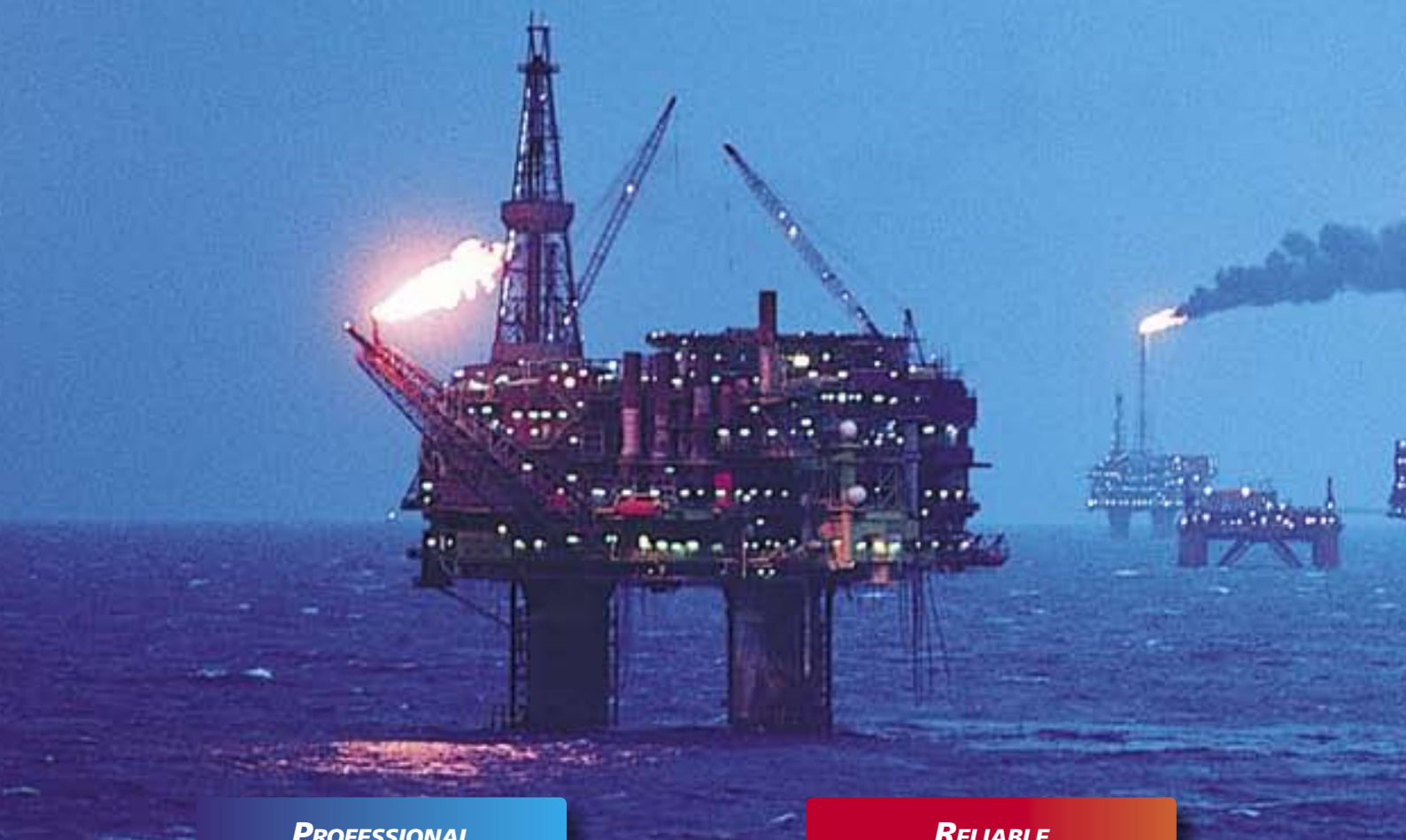
Long lasting water-borne coatings developed to combine corrosion protection with cost and environmental benefits.

Like the game of chess, choosing the right coating system requires a combination of skill, knowledge and experience – these are the benefits Jotun provides.





# Jotun – Your Professional Partner in Offshore



## PROFESSIONAL

Jotun's team of professional and reliable offshore specialists seeks long term business partnerships with its customers.

Being professional means providing the right solution at the right time, in the right place and in the right manner.

- Commitment to business and customer
- Insight into customer needs and customer value
- Know-how of the offshore industry
- Professional sales and technical service

## RELIABLE

To be reliable is to do basic things better than everyone else.

- Over 30 years successful experience in offshore
- Excellent track record
- Continuous innovation and improvement
- Extensive test and pre-qualification
- Strict QA both in production and in site application





# Unrivalled Standards of Global Service



Jotun provides an unrivalled comprehensive technical support function. At every Jotun location worldwide there are highly trained and experienced coatings specialists working as a team, in close communication, both together and with their customers. They bring an unrivalled wealth of knowledge and experience to solve even the most complex protection problems.

Technical service personnel are certified to FROSIO or NACE certification standard. They provide coating design advice, site surveys, written specifications and plan the actual coating work. They ensure surface preparation and application of coating systems are to the

standards which secure lasting corrosion protection with minimum maintenance. Thus Jotun customers are assured of receiving the best technical advice, service and follow-up all over the world.

Education and training are an integral part of Jotun activities. Jotun Paint School is an established system for education and training for management, technical support staff and corrosion engineers for construction facilities, contractors, engineering consultants and oil companies. It has proved to be very successful, increasing product knowledge, improving communication and understanding of common problems and their solutions.



## JAMP – Jotun Asset Management Programme

JAMP is a pro-active method of asset management designed to help maximise the life cycle of structures and assets that are currently coated or will be coated to enhance their maintenance cycle capability.

Firstly the condition of the site should be established. The programme then allows the client and Jotun to function as a team.

A maintenance programme is prepared for implementation on a priority basis of 4 phases. This programme provides long term cost effective corrosion protection coating systems:

- 1** Maintenance painting required immediately (< 4 months)
- 2** Maintenance painting required within 1 year
- 3** Maintenance painting required before next inspection (indicate number of years)
- 4** Maintenance painting unnecessary before next inspection (indicate number of years)

The programme takes into consideration many of the issues related to planned maintenance of a plant in operation or at shutdown, i.e. location, local weather conditions, site access, practical preparation problems etc.

The coating systems suggested take into consideration all of the relevant facts. They allow the team to prepare suitable preparation standards and coating systems to work within the constraints of the facility and prepare a suitable timetable of priority to perform the required maintenance schedule. The aim of JAMP is to avoid, wherever possible, unplanned costly shutdowns which are the result of coating problems.

# Jotun Protects Property

Illustrated here is a selection of offshore structures which are protected by Jotun coating systems.

For further examples please ask your local Jotun office for a copy of the

'Reference List Offshore Drilling Rigs, FPSOs and Fixed Platforms'



*FPSO: Varg*



*Fixed platform: Sumandak-A*



*FPSO: Girassol*

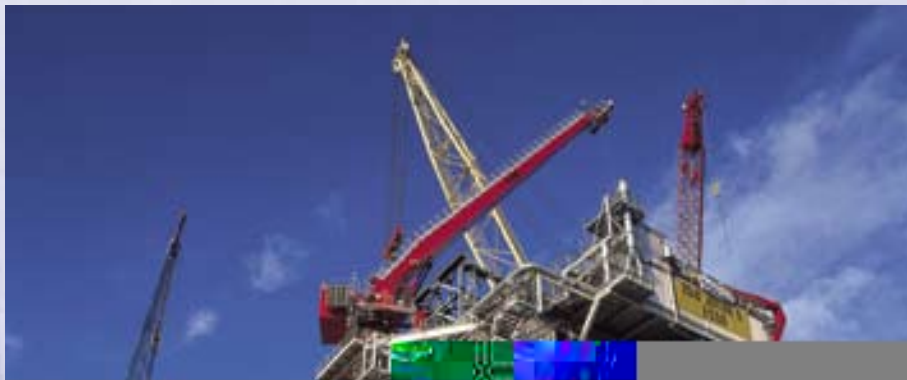


*Fixed platform: Bajiaoting*



*Drilling rig: Nanhai II*





*Fixed platform: Jotun*



*Fixed platform: Ivana A*



*Drilling rig: West Navion*



*Drilling rig: Deep Driller II*



*Rig platform: D6*



*FPSO: Schiehallion*

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