

Bureau Veritas global network: close to you everywhere



Americas
■ 330 offices and laboratories
■ 20,100 employees



Europe, Middle East & Africa
■ 660 offices and laboratories
■ 23,400 employees



Asia - Pacific
■ 410 offices and laboratories
■ 23,000 employees



Condition Assessment Programme

A Bureau Veritas service to assist shipowners and charterers



**BUREAU
VERITAS**

Move Forward with Confidence

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VERITAS**

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Condition Assessment Programme

Oil majors need the certainty that they are chartering strong ships. **CAP** is a voluntary programme developed by Bureau Veritas to meet that need. With **CAP**, shipowners can prove that their vessels show only a low corrosion pattern and have suitable expected fatigue lifetime.

This programme is mainly intended for older vessels carrying oil, products, liquefied gas or chemical cargoes in bulk.

The service provides owners with a universally-recognised **CAP** rating and fatigue appraisal of structural details for their vessels. The programme can be extended to include hull outfitting and machinery if required.

Scope of condition assessment

CAP is based on the concept of combining design and in-service survey data to allow a thorough assessment of a ship's condition.

Taking into account the specific requirements of the charterer, the following operations are carried out:

■ Hull structure:

- fatigue analysis,
- overall and close-up surveys,
- thickness measurement analysis.

■ Hull fittings and appliances:

overall survey of different components, and where relevant, thickness measurements, pressure tests and functional tests.

■ Machinery, electrical and automated installations:

- overall survey of installations,
- where relevant, pressure tests, functional tests, lub oil analysis, vibration measurements.



Certification

When Bureau Veritas has completed these operations, it issues a comprehensive report and a **CAP** certificate, giving the rating assigned to each of the parts of the ship.

Some oil majors, charterers and terminal operators require CAP 1 or CAP 2.



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Bureau Veritas recognition

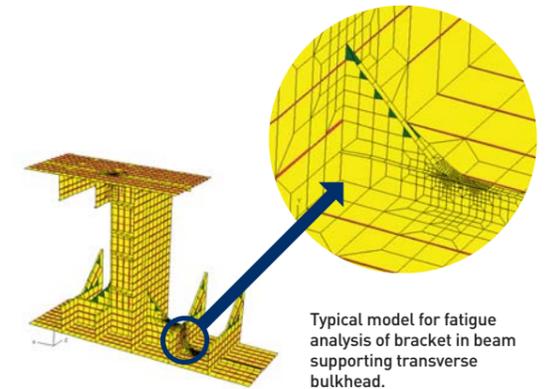
Bureau Veritas is currently recognised by the oil majors, charterers and terminal operators including **CAP** in their vetting process.

CAP primarily applies to oil and product tankers, chemical tankers and liquefied gas carriers, and also to any other ship.



Bureau Veritas means & tools for CAP assessment

- A dedicated team of naval architects to perform VeriSTAR structural analyses and focus the inspections on the significant items.
- Specialised surveyors, separate from class surveyors, to undertake **CAP** surveys in conjunction with assigned auditors,
- A service to combine survey reports and VeriSTAR input to respond timely to owners' and charterers' requirements.



Typical model for fatigue analysis of bracket in beam supporting transverse bulkhead.

Bureau Veritas CAP benefits

- Reduces risks in chartering older vessels
- Improves availability for chartering
- Close-up survey of fatigue hot spots
- Repair proposals for critical details suffering fatigue
- Photo library of findings
- Increased transparency

