

PROGRAMME

Fuel Oil Quality & Fuel Oil Treatment

**DNV at Piazza Rossetti 5/12, Genoa
18-19 November 2009**

**The course is arranged by
Det Norske Veritas Petroleum Services**

Day 1

08.30 – 09.00	Registration
09.00 – 09.15	Introduction
09.15 – 10.15	Residual Fuel Oils - Sources / compositions Petroleum fuels Refining principles / processes Production of fuel oil / properties Fuel trends and statistics Blending and stability
10.15 – 10.30	Coffee
10.30 – 12.30	Fuel specifications Owners and Suppliers specifications International fuel oil specifications Accuracy of test methods MARPOL Annex VI and EU Low S regulations
12.30 – 13.30	Lunch
13.30 – 14.30	The necessity of fuel oil treatment on board Handling of fuel oils onboard Basic about separators Conventional separators High density separators Separation Performance Standard Factors affecting separator efficiency Type approval of separators
14.30 – 15.15	Impact on the Operation Significance of fuel parameters
15.15 – 15.30	Coffee
15.15 – 16.30	Principal causes of fuel problems Fuel System Check Fuel Class Ignition and combustion properties Safety Aspects
16.30 – 17.30	Group work / coffee: "Interpretations of analysis results" - "Case 1"
19.30 19.31	Welcome dinner

P R O G R A M M E

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Day 2

08.00 – 09.30	Securing evidence - Sampling procedures Manual and automatic sampling Validity of samples
09.30 – 09.45	Coffee
09.45 – 11.00	Quantity and Quality disputes Ordering of fuels
11.00 – 12.00	Group work: "Ordering of fuels" - "Case 2"
12.00 – 12.30	Added substances not determined by standard analyses Microbiology
12.30 – 13.30	Lunch
13.30 – 14.15	Practical experience, case histories
14.15 – 14.30	Group work: Case history - Introduction
14.30 – 15.30	Group work / Coffee: - Ship operators' point of view - Ship's staff point of view
15.30 – 15.45	Presentation/discussion ship operator group
15.45 – 16.00	Presentation/discussion ship's staff group
16.00 – 16.15	Summing up of discussions
16.15 – 16.30	Closing remarks and evaluation
16.30	Departure

Lecturers:

John Stirling, Business Development Consultant
Dag Olav Halle, Technical Manager

Note: Small adjustments in the programme may be made prior to the course